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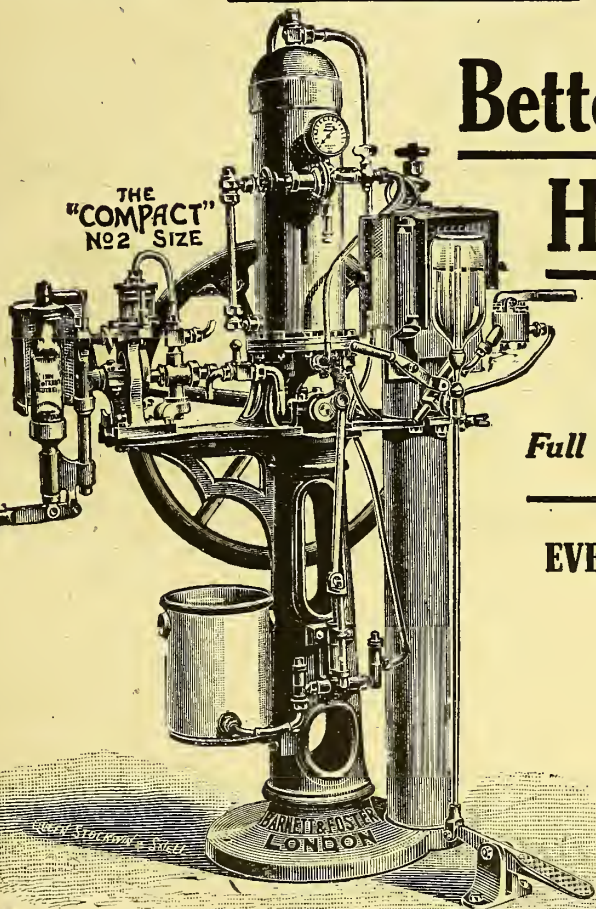
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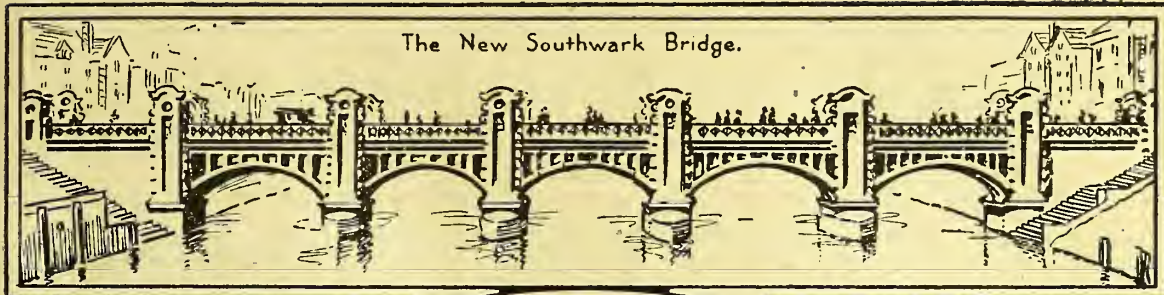
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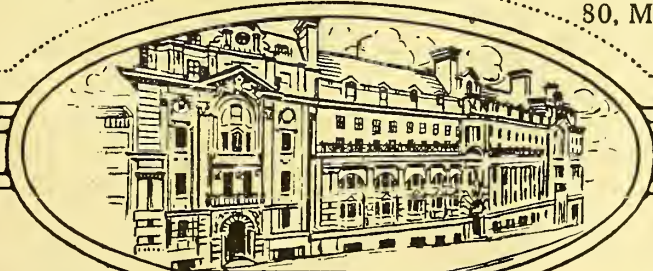
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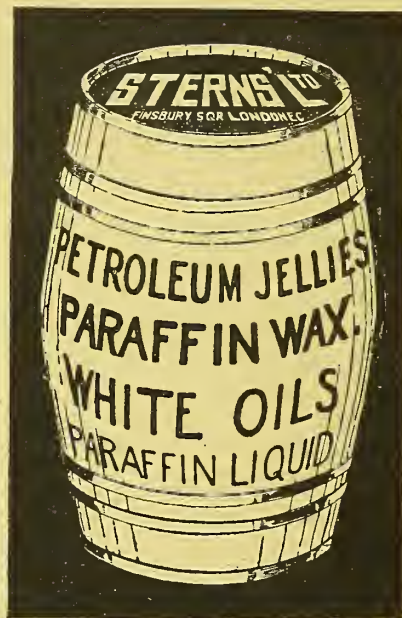


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Maw's

Page.

NUMBER 343.

MAY 11, 1918



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The "Vel-fin" Bandage can be repeatedly washed, and it comes up as fresh and elastic as when new.



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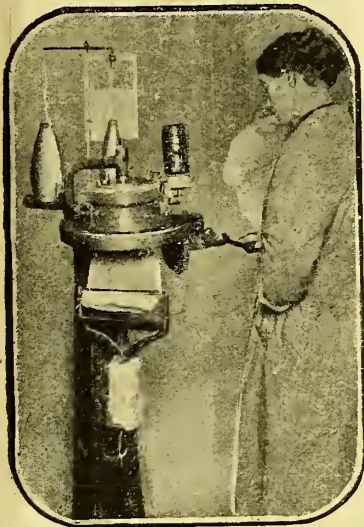
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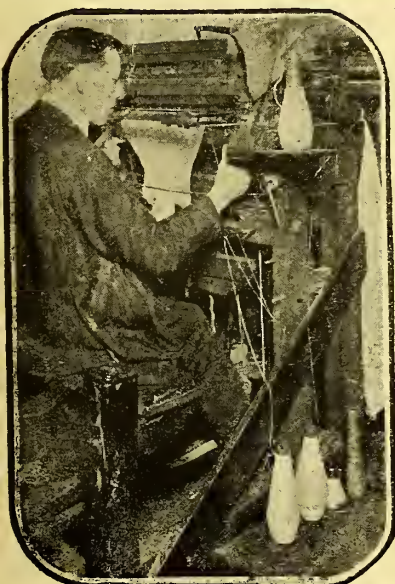


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	COTTON			SILK		
	Third Quality Drab	Second Quality White or Drab	First Super. Quality in White or Drab	Second Quality Silk Pink	First Quality Silk Pink or White	Super.
	Per Pair s. d.	Per Pair s. d.	Per Pair s. d.	Per Pair s. d.	Per Pair s. d.	Per Pair s. d.
ANKLETS	6 0	7 0	8 0	10 0	11 0	14 0
KNEE CAPS	7 0	7 6	8 6	11 0	12 6	17 6
with Thigh Pieces	—	16 0	18 0	21 0	23 0	30 0
LEGGINGS	7 0	8 0	9 4	11 0	13 0	16 0
with Knee Caps... ..	—	16 0	18 6	22 0	25 0	30 0
with Thigh Pieces	—	23 0	25 6	32 0	36 0	44 0
STOCKINGS	9 0	10 6	12 0	16 0	18 0	22 0
with Knee Caps... ..	—	18 0	20 0	26 0	30 0	34 0
with Thigh Pieces	—	27 0	29 6	36 0	41 0	48 0
THIGH PIECES	—	8 0	9 0	11 0	13 0	16 0
WRISTLETS	—	3 4	4 0	4 4	5 0	6 0



Laced Goods are not kept in stock, but are made to measure in first and second quality silk and first quality cotton, and prices are 33 $\frac{1}{3}$ higher than ordinary woven hosiery.

Specials are charged at stock prices, and we despatch orders promptly. Stock sizes above 8 are charged extra.

Order Forms and measurement instructions post free on application.

AYRTON, SAUNDERS & CO., LTD.
Wholesale Druggists,
LIVERPOOL.

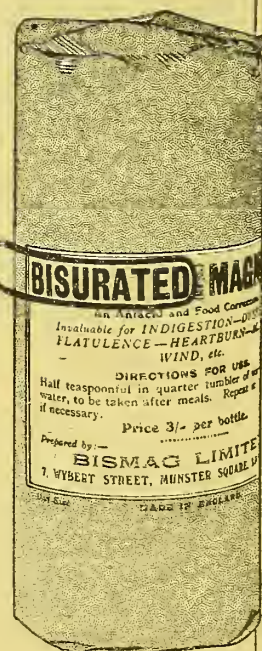
Showcards that will cultivate an elastic hosiery business free with all orders.

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To You IT MEANS
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Guaranteed Sales *and*
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To Your Customers IT MEANS
A Reliable Remedy *and*
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LARGE STOCKS OF BISURATED MAGNESIA IN POWDER & TABLET FORM

NOW AVAILABLE FOR IMMEDIATE DELIVERY

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Sole appointed distributors of genuine

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INDIGESTION—DYSPEPSIA—HEARTBURN—FLATULENCE—WIND, etc.

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Potassium Sulphoguaiacolate

Lanoline, finest B.P.

Liquid Paraffin, B.P.

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70/75 % B.P.

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The Best Natural British Tonic Water

Telephone : Avenue 896.

Telegraphic Address : " Chemorol, Phone, London."



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THE "DISTOL" SHOWCARD SERVICE.

THE above is a miniature monochrome reproduction of the brightly coloured window bill (size $7\frac{1}{2} \times 11$) supplied free to users of Highland Heather "Distol." It is typical of the large assortment of showcards, window bills, counter cards, etc., that make up the "Distol" Showcard Service. Chemists say they have proved very effective from the sales-promotion standpoint.

"Distol" Ottos simply require dilution with S.V.R. and a proportion of water (in some cases as much as 50%) to furnish an immediate supply of delightful perfume at a most reasonable cost. 34 varieties. Samples and prices free on request.

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Clear
Margin of
50%
on outlay.

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Regd

Toilet and Medicinal Soap

Showcards
Cut-Outs
Leaflets
Samples

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We invite Chemists to send us a trial order. Stocks at present are good.



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Reproductions of some of our Artistic Showcards which we shall be pleased to send you on application.

Special Window Display offer :—For an order of 6 doz. tablets we will send $\frac{1}{2}$ doz. full size 1/- tablets and 1 doz. trial size 3d. tablets, free. In addition, we provide artistic photogravure showcards and cut-outs, descriptive leaflets with certificates, etc.

Points about Medicura.

Intended primarily for toilet, combines all virtues of toilet soap. Quite neutral and free from caustic element. Primed with correct dosage of medicinal constituents approved by Dermatologists and Skin Specialists. Action can be mild and normal or powerfully equal to attacking any skin trouble and restoring health.

What it costs you.

6 doz. @ 9/- ...	£2. 14. 0
$\frac{1}{2}$ „ full size ...	...
1 „ trial tablets ...	...

£2. 14. 0

Your return.

6 doz. @ 1/- ...	£3. 12. 0
$\frac{1}{2}$ „ @ 1/- ...	6. 0
1 „ @ 3d. ...	3. 0

£4. 1. 0

Profit £1. 7. 0 = 50% on outlay.

The above Window Display, of which we have a limited number, can be arranged for one Chemist only in each district.

A Specimen Testimonial.

"I would be glad if
"you would send one
"gross of Medicura to
"me at ——— House.
"I like it immensely
"and have not felt
"clean since I finished
"the cake I had."

Manufactured and
Distributed by:—

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THE CHEMISTS' BRAND.

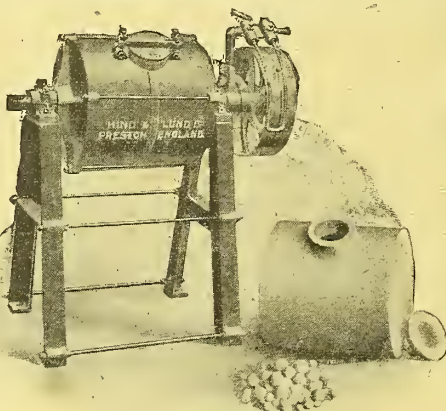
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Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

BALL GRINDING MILLS

IRON CYLINDERS, PORCELAIN OR QUARTZ-LINED. BATTERIES OF JARS FOR SMALL QUANTITIES. FLINT PEBBLES, PORCELAIN, BRASS, STEEL OR HARDWOOD BALLS. ALSO SPARE PORCELAIN JARS AND CHILLED IRON LINERS SUPPLIED.



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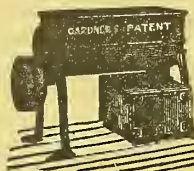
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"RAPID" SIFTERS & MIXERS

OVER 5,300 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust



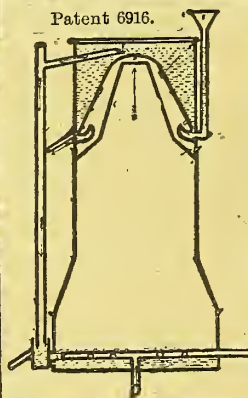
FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

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Patent 6916.



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We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled Water made this way is practically nil. As with our Gas Stills, these are perfectly automatic.

For producing up to
1½ gallons per hour, 9 gallons per hour,
5 " " 15 " "

Please Inquire for Quotation.

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills: National Physical Laboratory, 2 in use; Imperial College of Science, 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses, etc. etc.

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Estimates submitted free if required for supplying and fitting complete.

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THE SAFEST AND BEST PREPARATION OF OPIUM.

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Discount and terms as usual.

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You cannot offer or sell a more effective hair restorer and maintainer—one more natural in its principles and certain in its effects.

Your regular customers will want it from you, and if they do not obtain it at your store will be tempted to go elsewhere.

You will never have your stock of "KO-TAL-KO" tying up your capital uselessly—on the other hand, your repeat orders quickly follow.

My trade terms will suit you, for they allow you to make your proper and deserved profit, and you are working on sound business all the time.

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CLINICAL THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.

40 DIFFERENT KINDS.

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CLINICAL THERMOMETER.

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MERCURY COLUMN SEEN AT A GLANCE.

Made in Two Rapidities, 1 Minute and $\frac{1}{2}$ Minute.

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GROUND, SET AND SHARPENED, GOOD AS NEW, ON
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SATISFACTION GUARANTEED.

Send for Showcards, supplied post free.

All razor users readily catch on to the proposition to save and re-use their old blades.

6d. PER DOZEN.

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**SHADEINE**
FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

Trial Size 8d., per post 10½d.; Medium, 1/4, per post 1/7; Large, 3/6, per post 3/10.
8d. size, 6/- doz.; 1/4 size, 12/- doz.; 3/6 size, 33/- doz.**THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.****Wrinkles Absolutely Removed**

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From your Wholesaler or

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The Best Quality.**WEST-END PHARMACY SUPPLY**
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Cachets. All sizes, plain and embossed

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Medicinal Capsules. Fine Chemicals.

**CACHETS "FINOT"**

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With Inscriptions in any desired**tint; also Plain or Embossed.**

"Beautifully made and the inscriptions give them

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"Perfection of Cachets."—Lancet.

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In 17 Sizes, to fit the various types of Cachet Machines.

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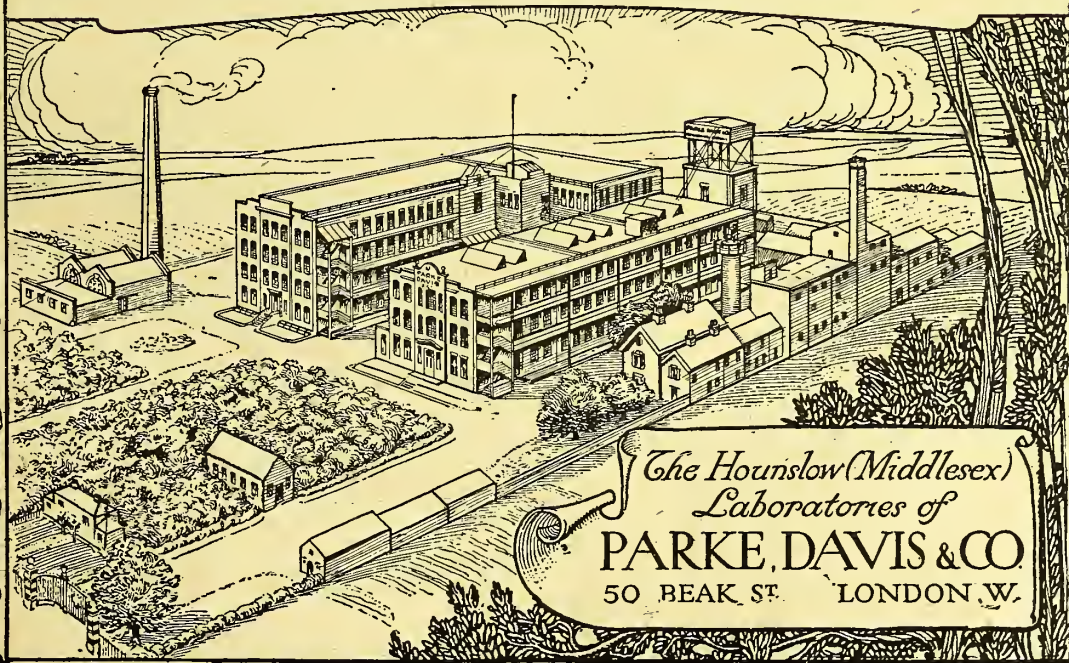
A preparation which is gaining in the public esteem is H_2O_2 . It has so many uses in the toilet and in the household that a steady demand may be created by introducing it to your customers.

Across the water the utility of Hydrogen Peroxide Solution is much more generally recognised than in this country. If you have Canadian or United States soldiers among your customers, it will be worth while to let them know that you stock the P., D. preparation, the brand that is familiar to them at home.

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Having acquired a Factory for the Manufacture of
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NORVIC
CREPE BANDAGE

Superior English Manufacture.

Extremely elastic, but contains no rubber.
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ABSORBENT GAUZE TISSUE,
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The Brand "Ingram's London" is a Guarantee of Quality.

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"Agrippa"
REGD TRADE MARK

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The Patent Band Teat and Valve "AGRIPPA" are perfectly Hygienic. The Rubber has been specially prepared so as to withstand actual boiling, and does not deteriorate by frequent repetition of this boiling process.

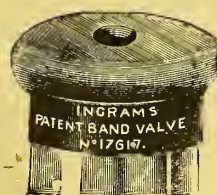
The chief feature of the Ingram's Patent Band Teat "Agrippa" is the extraordinary gripping power caused by the interior hand of rubber which holds on to the bottle, absolutely refusing to slip off. Therefore there can be no waste of the contents of the bottle whatever. The Patent Band Valve regulates to perfection the flowing milk food.

The "Agrippa" Patent Teat possesses a little flat cushion at the base, which gives comfort to the Child when taking its food, and is the nearest copy to nature, as far as feeding facilities are concerned.

Ingram's Patent Band Teat "Agrippa" is the only Perfect Teat extant and will fit any make of Boat Shape Feeding Bottle.

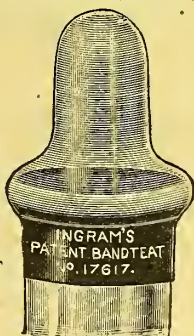
Obtainable from all

Wholesale Houses.



Black or
Transparent
Rubber.

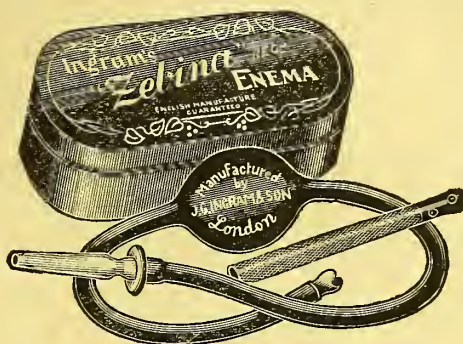
WILL NOT
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Ingram's Patent Band Teat and Valve "AGRIPPA" (Regd. Trade Mark) are protected by the P.A.T.A., and are supplied on the understanding that they will not be re-sold to Chemists and Retail Trade at lower prices than quoted below.

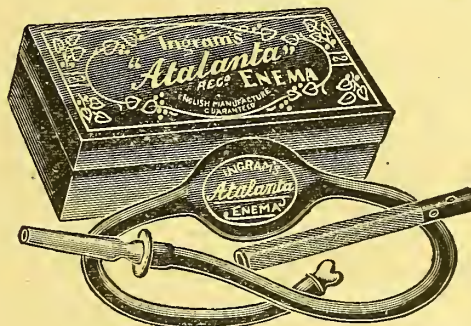
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TEAT (Patent No. 17617) Black or Transparent.	2/6 per Doz. Net 27/6 per Grs. Net (for orders of 3 Doz. and over).	3 1/2 EACH.
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INGRAM'S BRITISH-MADE SEAMLESS ENEMAS. THE "ZEBINA" ENEMA (Regd.)



Guaranteed Not to Split. (Ordinary Bulb.)
Practical Workmanship. Perfect Construction.
Fitted Complete with Bone Rectum and Gum Vagina Pipe and
Leather Shield, and packed in an attractive Card Box.

THE "ATALANTA" ENEMA (Regd.)



A Special Quality Enema (Large Bulb).
Special Quality Rubber. Constructed upon Hygienic Principles.
Fitted Complete with Bone Rectum and Gum Vagina Pipe
and Leather Shield, and packed in an attractive Card Box.

P.A.T.A. PRICES OF INGRAM'S REGISTERED ENEMAS.

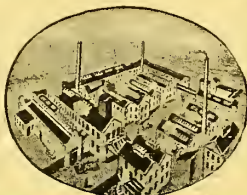
REGISTERED TRADE MARK.	Wholesale Prices to Chemists.	Minimum Retail Prices.
	Per doz.	Each.
ADAPTABLE ...	58/6	6/6
ECLIPSE ...	53/-	6/-
STERILENDUM ...	43/9	4/10
ZEBINA ...	42/-	4/8
ATALANTA ...	39/-	4/4
UTILEMA ...	35/9	4/-
ZENITH ...	35/9	4/-
PERFEX ...	28/8	3/3

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Established 1847.

HACKNEY WICK, E. 9.



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These requests are from Doctors and Nurses who have availed themselves of the offer of free samples which is inserted in all Sphagnol advertisements, and have conclusively proved how wonderfully efficacious Sphagnol is in the treatment of all forms of Skin Diseases.

We do not ask you to open another account, you can obtain your supplies from your Wholesale House, but we do ask you to *send us your Name and Address to enable us to refer inquiries to you.*

Let us send you samples and particulars.

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ALL ALKALOIDS & CHEMICALS.

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Prescriptions



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LONDON, W.**

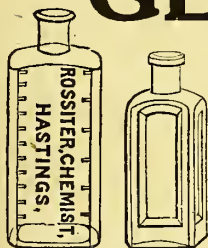
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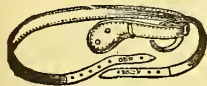
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FOR MOST Cement for broken articles, 6d. bots.
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which adds to the remuneration. There never was, and is not now, a polish that equals
PERRO, that's why we can't make and supply them quickly enough. Test PERRO now.

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Can also be had in boxes containing 13 packets, to retail at 1½d. per packet, or 2 for 2½d., and 1/3 per box; Wholesale price, 12/- per gross. Discount, 15%, plus bonus, according to quantity ordered. Carriage Paid on £5 orders.

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c. BUCHU et CUBEBA**

(Hewlett's)

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*The Practitioner.***VIROPHOS**

Of proved utility in Nervous Diseases, and a Powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value, enhanced by the presence of assimilable phosphates."—*The Lancet.*

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2.	8 " "	14/6
3.	4 " "	24/-
4.	18 " "	42/-

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c. BISMUTHO**

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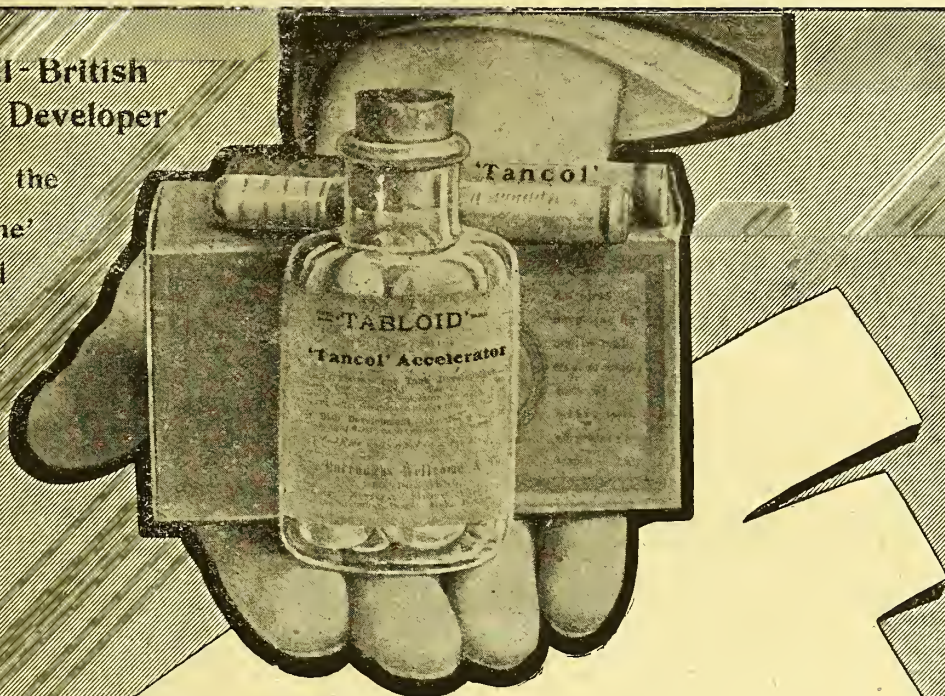
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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, May 13.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 4.30 P.M. Dr. H. R. Proctor on "Recent Developments in Leather Chemistry."

Tuesday, May 14.

Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 8.30 P.M. Mr. Herbert Skinner on "Scientific Method as Applied to Business."

Wednesday, May 15.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 3 P.M. Annual general meeting of members, followed by a special general meeting to confirm the proposed new by-laws (see C. & D., February 9, p. 39).

Chemists' Dental Society, Holborn Restaurant, London, W.C., at 7 P.M. Annual meeting.

THE SALES in the drug department of the Bradford Co-operative Society are returned for the last half-yearly period at 8937. 5s., giving a surplus of 3187. 12s.

VICTORIAN EUCALYPTUS OIL.—The total yield of eucalyptus oil from forest stills during the year ended June 30, 1917, was 446,700 lb. Altogether there are about 51,000 acres under cultivation for the production of oil in Victoria, and 600 persons receive regular employment in the forests.

European War News.

Import and Export Notices.

DUTCH EAST INDIES.—Following on the prohibition of the export of cinchona, quinine, kapok, etc., save by licence, the Governor-General has extended the measure to timber, tobacco, sugar, tea, pepper, coffee, copra, petroleum, vegetable oils, etc. It is officially explained that the object of the measure is to ensure to the Dutch East Indies the proportionate imports of goods it requires in return for exported goods. There is a great lack of certain products, particularly foodstuffs, as a result of the measures taken by neighbouring countries.

UNITED KINGDOM.—An Order of Council made on April 25 prohibits the exportation of goods to Russia. The text of the operative clause of the Order is published in the "Board of Trade Journal" of May 2.

Ammonia and Ammonia Products.

All purchasers of sulphate of ammonia for any purpose other than for use as a fertiliser, and all purchasers of anhydrous ammonia, liquid ammonia, salts, or other preparations containing ammonia (except crude gas liquor), in monthly amounts greater than those shown below, are recommended to register their names with the Director of Acid Supplies, Department of Explosives Supply, Storey's Gate, Westminster, S.W. 1, forwarding at the same time particulars of their consumption of each product referred to for the year 1917, and indicating the exact purpose for which the ammonia product is required.

Anhydrous ammonia	...	56 lb. per month
Salts or other preparations containing ammonia	...	112 lb. "

Personalia.

PRIVATE W. GILL, Wiltshire Regiment, is reported wounded and a prisoner of war. He enlisted from the Swindon branch of Boots, Ltd.

LANCE-CORPORAL PERCY H. CARTWRIGHT, Royal Scots, is reported wounded. He is the son of Mr. B. Cartwright, chemist and druggist, Galashiels.

RIFLEMAN WALTER PATTISON has been wounded on service, and is in hospital in Egypt. In civil life he was apprentice to Mr. W. Ruff, chemist and druggist, Whitby.

GUNNER JOHN EDWARD MATES is believed to be a prisoner of war in Germany. Prior to enlisting he was with John Riley & Sons, manufacturing chemists, Hapton.

LIEUTENANT F. J. MALLETT, R.E., has been awarded the Military Cross. Lieutenant Mallett is a son of Mr. Thomas J. Mallett, chemist and druggist, Victoria Park, Cambridge.

PRIVATE J. N. LEACH, Border Regiment, has been dangerously wounded. His apprenticeship in pharmacy was served with Mr. Robert Smalley, Ph.C., Yorkshire Street, Burnley.

PRIVATE CHARLES BAMBER, Gloucestershire Regiment, is reported missing. Prior to enlistment he was with W. Blythe & Co., Ltd., manufacturing chemists, Church, Acerington.

PRIVATE THOMAS PATULLO, R.E., has been severely "gassed." Private Patullo was in civil life an assistant with Mr. Edward Brindle, chemist and druggist, Morrison Street, Edinburgh.

PRIVATE ANDREW J. GUTHRIE, Royal Scots, is reported missing. Private Guthrie is a son of Mr. A. D. Guthrie, chemist and druggist, Ferry Road, Leith, who has three sons on active service.

CAPTAIN A. C. JARDINE, Yorkshire Regiment, has been awarded the Military Cross for conspicuous bravery on the field. Captain Jardine is a nephew of Mr. Thomas Jardine (T. & H. Smith, Ltd.).

Two members of the South Lancashire Regiment who joined from the staff of Joseph Crosfield & Sons, Ltd., Warrington—Sergeant Peter Longshaw and Private C. A. Peck—have been wounded on service.

PRIVATE ROWLAND THURSBY, Machine-gun Corps, has been wounded, and is now in hospital in England. Before enlisting he was with J. R. Cave, Ltd., chemists, Southport, with whom he served his apprenticeship.

PRIVATE STANLEY F. CLEMON, Rifle Brigade, officially reported killed (C. & D., April 13, p. 38), is now known to be wounded and a prisoner. Till enlistment he was apprentice to Mr. William Ralph, Ph.C., Lee, London, S.E.

SECOND-LIEUTENANT W. L. NORTH, York and Lancaster Regiment, has been wounded for the second time, and is in hospital in Scotland. Second-Lieutenant North was apprenticed to Mr. H. Bulmer Rudd, Ph.C., Ripon, till his enlistment in 1915.

SECOND-LIEUTENANT A. H. HIND, Machine-gun Corps, has been wounded by gunshot, and is in hospital in France. Second-Lieutenant Hind is a son of Mr. W. T. Hind, chemist and druggist, Clarendon Park, Leicester, whose eldest son was killed on service in October 1915.

LIEUTENANT BRINLEY O. DAVIES, Royal Welsh Fusiliers, has been missing since April 22. Lieutenant Davies is the youngest son of Mr. T. O. Davies (T. O. Davies, Ltd., chemists, Cefn, Ruabon), and prior to entering the Army was studying medicine at Liverpool University.

PRIVATE C. R. PADLEY, King's Own Yorkshire Light Infantry, is reported as missing since March 27. One of his brothers is a wounded prisoner in Germany, and another was killed in the Somme battle. They are the sons of Mr. F. R. Padley, chemist and druggist, Wooler.

SECOND-LIEUTENANT W. H. K. GIBSON, Royal Irish Rifles, is a prisoner of war in Germany. Second-Lieutenant Gibson, who is the son of Mr. Thomas Gibson (Thomas McMullan & Co., wholesale druggists, Victoria Street, Belfast), had been reported as missing since March 21.

SECOND-LIEUTENANT W. TREVOR STEPHENS, West Yorkshire Regiment, has been severely wounded in action. Second-Lieutenant Stephens was an assistant with his father, Mr. Stephen Stephens, Milnsbridge, Huddersfield, till the outbreak of war, when he enlisted as a trooper. He received his commission in September 1917.

LIEUTENANT T. W. THEAKSTON, R.E., has been promoted captain. Captain Theakston, who received his commission in 1916, has been on active service in France since 1915, and has been mentioned in despatches (*C. & D.*, 1917, p. 1093). He is a pharmaceutical chemist and the managing director of Prichard & Constance, Ltd., Haymarket, London, S.W.

Miscellaneous.

ENEMY PATENTS.—Applications are being made by Samuel Cutler & Sons, Ltd., 39 Victoria Street, London, S.W., for the avoidance of or for licences to work the Messerschmitt hydrogen patents 21479/08, 12242/12, 12243/12, 17691/13, 18028/13, and 17692/13. The hearings took place at the Patent Office Court on May 9.

GRADING FOR ELDER CONSCRIPTS.—The Ministry of National Service has issued an instruction with regard to grading men of the new military age and the corps to which the War Office propose to post these recruits. Emphasis is laid on the fact that the application of the accepted standards of physical fitness will require special care in view of the difference between the ages of the new classes and the men with whom Medical Boards have hitherto had to deal. Subject to military exigencies, the corps to which the War Office propose to post the older men are as follows:

(a) Combatant service: Home Defence Infantry, and Garrison Battalions at Home and Abroad. Royal Field Artillery, and Royal Garrison Artillery at Home.

(b) Auxiliary services at Home and Abroad, such as: Royal Army Medical Corps, Army Service Corps, *c.g.*, Motor and Horse Transport, Remounts, Supplies, etc., Army Ordnance Corps, Army Veterinary Corps, Inland Water Transport and Dock, Railway Troops, Roads, and Quarries.

Such men will also be posted to the Air Force for duty with the squadrons.

MILITARY SERVICE ACT.—The regulations made under the Military Service (No. 2) Act, 1918, have been revised (see p. 37). Regulation 12, quoted in the *C. & D.*, May 4, p. 34, now reads as follows:

A party to an application may conduct his own case or may be represented by any person appointed by him for that purpose, and all parties to an application and their representatives, if any, shall confine themselves to the presentation of evidence and the elucidation of facts strictly relevant to the grounds on which the application is made.

With regard to appeals the circular points out that application for the renewal or variation of a certificate of exemption granted by a Tribunal (other than a certificate on the ground of certified occupation) may be made by or on behalf of a man only if the leave of the proper Tribunal has been obtained, but that the new regulations provide for appeal, subject to the usual conditions, from the decision of a Tribunal granting or refusing leave. If the request for leave has been decided without a hearing, the notice of appeal must be delivered not later than the third day after the notice of the decision is sent out. If the request for leave is heard by the Tribunal, their decision should be announced orally at the hearing, and the notice of appeal must be delivered not later than the second day after the decision. If, on an appeal against a refusal to grant leave, the Appeal Tribunal grant the leave, they should proceed forthwith to hear and to decide the case on its merits, to avoid any delay.

Two Chinese Anthelmintics.

By John A. Goodson, F.I.C.

IN January 1915 the author had the opportunity of examining two plant-products brought from China by Miss F. M. Cunningham, a missionary in that country. They were submitted to the Director of the Royal Botanic Gardens, Kew, for identification, and proved to be the seeds of *Quisqualis indica*, L., and *Torreya nucifera*, Sieb. and Zucc., respectively. The small amount of material available was only sufficient for a preliminary examination, and the previous history of the plants did not appear to warrant the employment of much time or labour on their investigation, but it is thought that the few facts elicited with regard to their composition may be of interest.

QUISQUALIS INDICA.

Quisqualis indica, L., is also known as *Q. chinensis* (= *Q. sinensis*, Lindl.). The seeds are described by F. Porter Smith ("Materia Medica of China," 1871), by Hanbury ("Science Papers," p. 232), and in the "Pharmacographia India," 1891, ii., 13. Four or five seeds are said to be a safe and efficient vermifuge for children. The "Pharmacographia India" states that *quisqualis*-fruits consist of 41 parts of shells and 59 parts of kernels in 100 parts; the fixed oil extracted by ether amounts to 15 per cent.; it is of a yellow colour, peculiar odour, and has a specific gravity of 0.9169; it yields on saponification 94.7 per cent. of fatty acids melting at 43° C. The author found that the seeds had an average weight of 0.9 gram, and consisted of 59 per cent. of shells and 41 per cent. of kernels. The ground kernels were extracted consecutively with solvents, and gave the following percentages of extract: Light petroleum, 21.98; ether, 0.70; chloroform, 0.53; ethyl acetate, 0.69; alcohol (95-per-cent.), 10.53. None of the extracts gave an alkaloidal reaction with Meyer's reagent, with the exception of the alcoholic extract, which gave a faint precipitate. The light-petroleum extract was a yellow oil, which solidified at the ordinary temperature, and exhibited the following characters: Specific gravity, 100° C. 0.8936; saponification-value, 191.9; acid-value, 33.3; iodine-value, 63.1.

Recently Yü Deh-vong ("J. Pharm. Soc. Japan," 1917, No. 420, 135; from "Chem. Abstracts," 1917, II, 2387) has reported on the chemical investigation of *Quisqualis indica*, L., var. *villosa*, Clarke. The Director of the Royal Botanic Gardens, Kew, states that the leaves of this variety are more hairy than those of *Q. indica*, L., but that the fruits, which are variable in size and shape, do not differ from the type. Deh-vong describes the crude oil, extracted by means of ether, as a thick yellow liquid, having the following constants: d_{20}^{20} 0.9072; solidification-point, -20°; acid-value, 31; saponification-value, 255.92; iodine-value, 39.

TORREYA NUCIFERA.

Hanbury ("Science Papers," p. 233) states that these seeds are eaten like hazel-nuts, and, although reputed somewhat laxative, are considered wholesome. The author has been unable to find any definite statement in the literature with regard to the medicinal properties of these seeds, but M. Tsujimoto ("J. Coll. Eng., Tokyo," 1908, 4, 75) states that the oil—known as Kaya oil—expressed from the seeds is used not only as an edible oil and for industrial purposes, but also as an insecticide. Tsujimoto states that the average weight of the seeds is 1 gram; they consist of 32 per cent. of husk and 68 per cent. of kernel, the latter containing moisture 2.67 to 5.04 per cent., oil 51.07 to 51.70 per cent., and giving 2.20 to 2.29 per cent. of ash. The seeds employed in the present investigation amounted in average weight to 1.68 gram, and consisted of 38.3 per cent. of husk and 61.7 per cent. of kernel. On extracting the ground kernel with solvents consecutively the following percentage weights of extracts were obtained: Light petroleum, 45.51; ether, 5.23; chloroform, 0.43; ethyl acetate, 0.33; alcohol (95 per cent.), 3.85. None of the extracts gave an alkaloidal reaction with Meyer's reagent. The light-petroleum extract was a yellow oil, which became turbid on cooling. It had the following constants, the corresponding values for cold-pressed Kaya oil determined by Tsujimoto being given for comparison:

		Tsujimoto
Sp. gr. at 15°	0.9276	0.9238
Saponification-value	180.3	188.4
Acid-value	29.4	—
Iodine-value	114.2	142.2

The Wellcome Chemical Research Laboratories,
6 King Street, London, E.C. 1.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Society of Apothecaries of London.

At the Assistants' examination which commenced on April 22, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:

Allanson, A. M.	Howell, E. E.	Parker, H. M.
Andrews, H. M.	Huband, P. J.	Parkes, R. E.
Berry, E.	Hughes, D.	Pickup, B.
Betts, F.	Hughes, G.	Rivers, C. M.
Birks, B. C.	Humphreys, C. A.	Roper, K. G. O.
Blair, M. E.	Humphreys, J. A.	Rowlands, E. E.
Bradley, D. M. A.	Isaacson, M. S.	Schunck, V. G.
Brady, E. O.	James, E. M.	Scott, C. L.
Burton, M. M.	Job, P. M.	Seymour, H. S.
Burton, W.	Johnson, E. L.	Sinclair, E.
Chittenden, F. M.	Kilner, M.	Snow, Cyril B.
Colbran, M. B.	Lambert, E.	Spencer, B. D.
Coney, M. A.	Lawrence, A.	Stanger, W. M.
Curral, J. E.	Leeder, C. L.	Swan, H. M.
Davidson, M.	Leese, C. M.	Swan, L. P.
de Mierre, O.	Leverett, G. M.	Tatton, K. A.
de Vesian, O. E.	Lintern, C.	Taylor, A.
Dickinson, F. E.	Loxley, W.	Tope, W. M.
Dickinson, M. R.	McCormick, A. H.	Trimble, M. F. M.
Elgie, E. M.	McLean, I.	Vaughan, Leonard
England, G.	Mann, E. A.	Percival
Faulkner, B.	Margerand, A. L.	Wade, E.
Felder, H. P. P.	Marsh, M. C.	Wade, S. D.
Finch, O. M.	Martin, E. D.	Waghorn, E.
Fletcher, M. B. A.	Martin, Ethel	Wakelin, D. L.
Foulds, A. E. M.	Martyn, B. S.	Walker, K. S.
Gibbs, F. E.	Miller, H. M.	Warn, I. M.
Gibbs, J. E.	Mitchell, A.	Watson, M. G.
Grant, E. N.	Mitchell, R. H.	Webb, B. M. E.
Hancock, M. E.	Monk, S. C.	Webb, F. E.
Harcourt, K. M.	Neild, M. V.	Weller, W. L.
Harrington, C. A.	Newbould, E. H. R.	Wells, H. F.
Harrison, E.	Nicholls, L.	Wexelsen, H. M.
Hartley, F. M.	Nicholson, M. P. L.	Wheatley, E. M.
Hawkes, E. M.	Nixon, M.	Widdop, D.
Higgs, K. A. S.	Norfolk, E. M.	Wilkins, M. A.
Howard-Paget, H. B.	Owen, M.	Wrenche, A. R.

Venereal Disease Order.

An Order has been made by the Local Government Board, under powers conferred by the Venereal Disease Act, that on and after July 1 the following are to be scheduled areas under Section 1 of the Act:

Counties: Berks, Denbigh, Derby, Devon, Dorset, Isle of Wight, Lancaster, Nottingham, Somerset, Stafford, East Suffolk, West Suffolk, Wilts, East Riding of Yorkshire.

County Boroughs: Blackburn, Bristol, Burton-upon-Trent, Derby, Ipswich, Kingston-upon-Hull, Reading, Rochdale, Southampton, Southport, Walsall, Wolverhampton.

The areas previously scheduled were enumerated in the *C. & D.*, July 28, 1917, p. 43, and December 22, 1917, p. 34.

Royal Academy of Arts.

The predominance of naval and military subjects again imparts to the Royal Academy Exhibition, which opened on May 6, a character in keeping with the times, and tends to diminish the appeal of less topical exhibits. For this reason, among others, there is little of direct interest to chemists. Among the portraits, however, is one (No. 543) of Dr. H. P. Stevens, the rubber expert, by Frederic Whiting. A drawing (No. 1369) of the physiological laboratory (exterior) at Cambridge, designed by Sir Thomas G. Jackson, Bart., is an interesting revelation of the massive and spacious proportions now deemed desirable in a building devoted to scientific research; and photographs of the London School of Medicine for Women (No. 1303) set one wondering what buildings pharmacy has to show of comparable attractiveness for fair visitors about to choose a profession. Two exhibitors, Ruth Dollman and T. W. Hammond, have chosen Sussex chalk pits as subject, and between them give a big display of creta in the unprepared state: this is almost the only article of pharmaceutical interest that has caught artistic attention this year, medicinal plants, with the exception of lavender, being literally in the shade. There is a consolation prize, though, among the water-colour paintings (No. 701), entitled "An Old Cellar," by Lucy E. Pierce, which is evidently suggested by the nether regions of some pharmacy. The chemist of the present day, of course, keeps his cellar spic and span; but he can remember that of his apprenticeship days as depicted here, with its brickwork steps, its dim light, and a profusion of winchester quarts in dangerous proximity to large stone jars—on the floor. An old one-gallon glass carboy and red labels on some of the winchesters are veracious details in the picture; but what is it that the owner of the pharmacy keeps in a cask branded "XXX"?

Contracts.

The following tenders have been accepted by the bodies named:

Glasgow Parish Council.—J. & D. Macnair & Co., spirit of wine; Virol, Ltd., virol; Baird Bros., surgical dressings; W. E. Taylor & Co., malt extract; F. C. Calvert & Co., carbolic acid; British Oxygen Co., Ltd., oxygen.

Islington Borough Council.—Adcocks, Jeyes' Sanitary Compounds Co., Ltd., and the "Sanitas" Co., Ltd., disinfectants.

Ludlow Guardians.—G. Woodhouse & Son, chemists, soaps, disinfectants, etc.

Birmingham.

Among the Parliamentary candidates for two of the Birmingham divisions are Mr. Arthur Brampton and Mr. Wilfrid Hill, both of whom are conversant with the needs of pharmacy.

Now that almost everything in use is commandeered, licensed, couponed, or otherwise controlled, pharmacists are beginning to wonder how the payment of rates and taxes is to be accomplished, not to mention the purchase of War Bonds!

Liverpool.

On dit that the staff of Ayrton, Saunders & Co., Ltd., will be asked to repeat their recent entertainment at Crane Hall, under the patronage of the Liverpool Chemists' Association.

It is understood that local machinery for making saccharin tablets would have amply sufficed in normal times. It cannot, of course, be supplemented without priority certificates.

The residence of Mr. William P. Evans, Bidston Court, Bidston Hill, one of the finest modern "timbered" houses in England, has been sold privately by instruction of Mr. R. S. Hudson, the builder and owner.

At the suggestion of Mr. Robert C. Herman, chemist and druggist, a member of the City Council, the medical officer of health has sent round to chemists copies of a card of directions to be handed to anyone seeking free treatment under the V.D. Act.

Sheffield.

Some chemists are allowing for the new saccharin-duty by keeping the old prices, but giving ninety tablets in place of each hundred.

Wor. Bro. Percy Carr, chemist and druggist, Eccleshall Road, has been installed Registrar of Marks for Yorkshire by the Provincial Grand Master.

The military authorities have been summoning chemists to their medical grading at most inconvenient times; but it is hoped that Thursday afternoons will be arranged as the time henceforth, especially for the benefit of those running one-man businesses.

A meeting of the creditors of Mrs. J. T. E. Bryars, 801 Attercliffe Road, was held on May 3 at Sheffield, when the statement of affairs presented showed liabilities amounting to 250*l.* and net assets 98*l.* It was stated that the business had been sold for 130*l.*, and this amount, subject to payment of preferential claims and expenses, was available for distribution among the creditors. It was decided to accept a cash composition of 7*s.* 6*d.* in the pound in settlement, and that those creditors present at the meeting should receive the amount due to them before they left the meeting.

Miscellaneous.

POISONING.—A verdict of "Suicide by taking veronal poison" was returned at an inquest at Teignmouth, on May 8, on Private Clarence Hookey, A.S.C., formerly a policeman in London. Ada Nixon, of Sibley Grove, East Ham, who was with Hookey, was committed to the Assizes on a charge of being an accessory before the fact.

SINGLES BOWLS CHAMPIONSHIP.—Mr. W. E. D. Shirtliff, President of the Western Pharmacists' Association, has given a silver cup to the Bowls Section of the Association to be competed for annually. Mr. W. Wilkinson, chemist and druggist, 165 North End Road, West Kensington, London, W. 14, is the Hon. Secretary, to whom entries should be notified.

NATURALISATION QUESTION.—At Marlborough Street Police Court, London, W., on May 6, Henryk Roman Dydzinski, analytical chemist, was fined 10*l.* on three summonses, and 5*l.*, with 5*l.* costs, on a fourth summons, for making false statements regarding his nationality. He stated that he was a Russian subject, notwithstanding that he was naturalised a British subject in 1904. Mr. Muskett, prosecuting for the Commissioner of Police, said there was no suggestion of any ulterior motive on defendant's part.

WAGES DURING ILLNESS.—Notice is given by the Insurance Commissioners that on July 1 the section of the Act of 1911 regarding the payment of contributions at a reduced

rate where the employer pays wages during sickness will cease to have effect, and that in consequence of the Act of 1918 contributions will be payable by the employer in all cases at the following rates: Employed contributor, man, 7d. a week; woman, 6d.; exempt person (man or woman), 3d. a week (employer's contribution only).

THE IMPERIAL ASSOCIATION OF COMMERCE, of which Lord Inchcape is President, has been founded, among its objects being the protection and safeguarding of British trade and British traders wherever their interests are assailed. An influential Provisional Committee, consisting chiefly of the principal Mining Lane, Mark Lane, and Baltic produce firms, has been elected. The Director is the Hon. F. M. B. Fisher, 6 Crosby Square, London, E.C. 3. The Association is an outcome of the war and the relentless Government pressure, which is threatening the rights and privileges of traders.

SALE OF FOOD AND DRUGS ACTS.—At Hedingham, on April 30, Frank Scrivener, Borley, was fined 15s. for selling Epsom salts containing 10 parts per million of lead.—Among the articles analysed during the past quarter by the Hertfordshire county analyst were arrowroot, ground ginger, and camphorated oil. All were found genuine.—The Sheffield public analyst has drawn attention to a sample asked for as "camphorated oil," and found to contain 12.6 parts of camphor and 87.4 parts of a mineral oil. It is believed that the preparation was labelled "camphor and oil." Articles recently analysed by him and found genuine include compound liquorice-powder, mustard, and sweet spirit of nitre.

CHEMICAL WORKERS' WAGES.—The conciliation agreement that has been arrived at between the Drug and Fine Chemical Manufacturers' Association and various workers' unions (*C. & D.*, March 16, p. 35) has already borne fruit in the issue of an award, by the Committee on Production, to drug and fine-chemical workers. The effect of this award was explained by Mr. Andrew Boyd at a concert held at Cripplegate Institute, London, on May 3 under the auspices of the National Warehouse and General Workers' Union. He explained that the award, which dates from March 18, was for 5s. per week increase up to the maximum of 17. per week on pre-war wages for males over eighteen; 3s., with a maximum of 15s., on pre-war wages for females over eighteen; and 2s. for junior workers. All the items in the programme were contributed by employes of Burroughs Wellcome & Co. and Evans Sons Lescher & Webb, Ltd.

IN THE COURTS.—At Dunstable Sessions, on April 30, William Harris, labourer, 28 Princes Street, was committed for trial, bail being allowed, on a charge of thefts of colchicum-corm and belladonna, value 152l. 9s. 9d., the property of Mr. Joseph Flemons, Ph.C. Defendant pleaded not guilty. Evidence was given by Mr. Samuel Potter, drug-merchant, 16 Mark Lane, London, of dealings with Harris in the drugs mentioned. Mr. Flemons, in the course of his evidence, stated that he had sent, last August, to Hampshire to collect belladonna, and that lately it had come mainly from the north-east of Yorkshire. He had no means of identifying it after it had been dried in his kilns. Colchicum came from Shropshire and Herefordshire, and the bulk of it was dried in a hop-kiln. He could easily distinguish corm thus dried from corm dried in a brick-kiln, the former being white, while the latter was discoloured by smoke. He could also tell by the texture the time of year at which it was dried. Mr. Thomas B. Flemons, brother of the prosecutor, identified the lost colchicum as part of a lot he had had sliced thinner than was usual. He had thirteen women engaged on the work of slicing.—At Bow Street Police Court, London, on May 6, John Brown, hotel servant, charged on remand with unlawfully having cocaine in his possession (*C. & D.*, May 4, p. 35), was sentenced to five months' hard labour and ordered to pay a fine of 80l.—Beatrice Wilson was at Marylebone Police Court, on May 8, committed for trial to the Central Criminal Court on a charge of forging and uttering three medical prescriptions for morphine sulphate, purporting to be signed by Guy Wood, F.R.C.S.—At Woolwich Police Court, on May 7, Mr. David Usborne Still, chemist and druggist, 9 The Village, Old Charlton, was fined 17. for not giving Mr. Alexander Farquhar, an assistant, a weekly half-holiday, and 5s. on each of two summonses for not displaying notices with reference to such half-holidays at 39 Artillery Place and 36 Church Street, Woolwich. Evidence was given for the defence that Mr. Farquhar voluntarily surrendered his half-holiday once a fortnight to help to deal with National Insurance prescriptions.—Giving evidence in a milk case at Kensington Petty Sessions on May 7, Mr. John David, analytical chemist, expressed the opinion that the pasteurisation of milk did not affect it in any way except to remove a little of its water.

Irish News.

Passports for Ireland.

It is officially announced that on and after May 21 passengers, other than members of his Majesty's or any Allied Forces in uniform, desiring to embark in Great Britain for Ireland must possess a permit obtained from the Permit Office in London, Liverpool, or Glasgow. Information regarding the procedure to be followed to obtain a permit to travel to Ireland can be obtained from the nearest police station. A similar Order affects persons resident in Ireland who desire to visit Great Britain.

Scarcity of Silver.

Chemists all over Ireland have been put to much inconvenience as a consequence of the shortage of silver, since customers have in some cases been turned away owing to the inability of the shopkeeper to supply change. The banks have, however, promised to do something soon to relieve the shortage. It is stated that the dearth of silver is due to the belief in Ireland that Treasury notes are not such good currency as silver. In the West of Ireland people who had money on deposit withdrew it from the banks and demanded payment in silver. The banks insisted on paying in notes, and these were afterwards changed at various shops and the money stored away. A public meeting has been held in Cork to consider the serious situation that has arisen in the city. The meeting forwarded an urgent telegram to the Chancellor of the Exchequer asking that 5s. notes and postal orders should be put into circulation to ease the situation. Our Cork correspondent informs us that postal orders for small amounts are being used freely in Cork.

Scottish News.

Scottish Chemists' Retail-price List.

The following are some of the alterations in the current issue of the Scottish Chemists' Retail-price List: *Drugs*.—Arrowroot (St. Vincent), 5d. ½ lb.; camphor flor., 8d. oz.; cera alb., 6d. oz.; glucose, 2s. lb.; insect-powder, 6d. oz.; lin. camph., 5d. oz.; ol. caryoph., 6d. dr.; pot. tart. acid., 5d. oz.; vin. colch., 8d. oz.; vin. ferri, 5d. oz.; vin. ipecac., 6d. oz. *Packed Goods*.—Bay rum (rect.), 2-oz. 1s. 6d., 4-oz. 2s. 6d.; liquid ext. cascara, 2-oz. 1s., 4-oz. 1s. 9d.; seltzogen powders, 3-pint 3s. doz., 5-pint 4s. doz.; sugar of milk, ½ lb. 3s. 6d., 1-lb. 6s. 9d. *Proprietarys*.—Condy's Fluid, 1s. 3d.; Cuticura Soap, 1s. 1d. per tablet; Williams's Pink Pills, 2s. 5d.

Brevities.

The long spell of cold and wind has created a boom in skin-creams, some stocks of well-known brands being completely sold out.

It seems that the reservation of sugar for preserving fruit next autumn is one of the causes of the excessive demand for saccharin.

Judging from the dispensing-department, there is something like an epidemic of kidney-ailments just now. Remedies such as hexamine were never more in vogue.

A correspondent of the "Dundee Advertiser" is of opinion that phosphorus rat-poison is "the innocent cause of many farm fires, as on becoming dry it takes fire readily."

A large quantity of lycopodium was recently landed at a northern port from Russia, and local curiosity has been aroused. One suggestion is that it is a metal used in explosives; another that it is a good plant-food!

A man described as a rat-catcher has been sentenced to four months' imprisonment at Falkirk for "selling as rat-poison packages containing little more than oatmeal," and thus obtaining, so far as was ascertained, the sum of 3l. 12s. 6d.

A cantankerous customer returned lately to a pharmacy at which he had just bought a pound of crushed linseed and demanded another four ounces. It turned out that he had gone home and digested an apothecaries' weight table, and finding it there stated that "12 oz. = 1 lb.," concluded he had been duped. He was soon disillusioned and humorously advised to apply the cataplasm to his upper extremity.

Glasgow.

Great interest is being taken here in the forthcoming Council election.

Mr. David Ellis, D.Sc., Glasgow Royal Technical College, has commenced a series of lectures on plant-life in relation to food. The lectures are to be supplemented by country excursions. Dr. Ellis was teacher of botany in the pharmaceutical classes formerly held in the Technical College.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

EDUCATION BILL.

The Committee stage of the Education Bill commenced on May 7 in the House of Commons.

BOTULISM.

an obscure disease which has caused a few deaths in this country is under investigation, stated the President of the Local Government Board. So far no particular article of food has been associated with the cause of the illness.

POST OFFICE BILL.

The second reading of the Post Office (No. 2) Bill, which deals with the new rates of postage referred to in the Budget statement (*C. & D.*, April 27, p. 43), took place in the House of Commons on May 6. A concession was made in regard to the postage of letters to troops abroad, which is to remain at 1d. in place of 1½d. as proposed.

TRIBUNAL REGULATIONS.

As a result of a discussion in the House of Commons on May 2 it was announced by the President of the Local Government Board that the regulation prohibiting the employment of professional assistance by applicants to military Tribunals would be rescinded (see *C. & D.*, May 4, p. 34). A right of appeal against the refusal of leave to apply for renewal is also to be allowed.

SIR RICHARD WINFREY.

During a discussion on the motion to authorise the payment of money under a horse-breeding scheme, brought forward by the Board of Agriculture and Fisheries, a member of Parliament said regarding Sir Richard Winfrey, "I have always admired the hon. member, who is one of the best members of the Government, and I do so still the more to-night, and express the hope that he and others will be equally prompt and graceful in their capitulations."

LUXURY-TAX COMMITTEE.

Mr. Acland's Select Committee met again on May 8 at the House of Commons, when a step further was taken by the appointment of the following ladies to serve on the Sub-Committees which are to prepare schedules of luxuries: Miss Beatrice Chamberlain, Miss M. Craig, the Hon. Mrs. F. Guest, Lady St. Helier, Mrs. H. B. Irving, Miss Violet Markham, and Miss Vaughan Nash. It is obvious that one or more of these ladies will deal with perfumery and other articles vended by chemists and druggists.

SACCHARIN-SUPPLY.

Mr. Clynes on May 2 stated in the House of Commons that the progress which is being made with the manufacture of saccharin in this country is as satisfactory as can be expected, having regard to the technical difficulties surrounding a new manufacture of this character. The prices of tablets made from British-made saccharin have been fixed by arrangement with the trade, and it is hoped that in the near future it will be possible entirely to dispense with the supplies of higher-priced imported saccharin.

NITROGEN PRODUCTION.

Several questions were asked in the House of Commons on May 2 regarding the processes which are being used in this country for the manufacture of nitrogen from the air. The patent for the Haber process, as in the case of other patents communicated by Germans, did not disclose the details of the process which are necessary to make it a commercial success. These have since been worked out by a research staff, and twelve patents have been taken out for the processes. The research work is now being translated into large-scale operations.

DISPENSERS AND THE ARMY.

In the House of Commons on May 8, Mr. Hohler asked the Under-Secretary of State for War whether the Army Orders requiring the employment of qualified dispensers were altered after his attention had been drawn to the fact that an unqualified person of military age was being employed at No. 2 London General Hospital, and in order to enable the authorities to retain this man though there were a number of qualified women on the waiting list.

Mr. Macpherson replied that the regulation regarding the qualifications of dispensers was made during the South African War; it was renewed in September, 1914, and has been in force since. The suggestion that it was introduced or altered to meet the case of a certain individual is incorrect.

CRIMINAL LAW AMENDMENT BILL.

The second reading of this Bill took place in the House of Lords on May 7. The Bill amends the Criminal Law Amendment Acts, 1885 to 1912, and re-enacts with amendments the Indecent Advertisements Act, 1889, and Section 2 of the Venereal Disease Act, 1917. The last-named section is made to include the supply of abortifacients, and is made more comprehensive by the use of the formula, "any drug, appliance, substance, or thing." Clause 5 makes the communication of venereal disease an indictable offence; and referring to this the Bishop of London said it would prevent the exposure for sale of preventives and other rubber goods which the young buy in thousands. Tremendous fortunes are in these things. The Bishop added:

"I contend that it is a positive scandal to our civilisation and Christianity to-day that these things are sold in the open in chemists' shops all over London, and no doubt in other places too."

Earl Russell, the next speaker, pointed out that there is nothing in the Bill dealing with contra-conceptives. He referred to the difficulties of providing the legal evidence that would convict a person of an offence under Clause 5. The Archbishop of Canterbury said the Bill does not appear to include advertisements which offer to treat persons for female irregularities, which nearly always means that the person requires something to produce abortion. The people who advertise merely give calomel or some harmless thing of that kind and obtain money under a pretence which may be false. The Bill was referred to a Joint Select Committee of both Houses. The Sexual Offences Bill was also read a second time, and referred to the same Committee.

Legal Reports.

A Question of Legibility.—At the Mansion House Police Court, on May 7, Fuerst Bros., Ltd., 17 Philpot Lane, London, E.C., were charged with contravening the Companies (Particulars as to Directors) Act, 1917, by sending to the Nitrogen Products and Carbide Co., Ltd., two letters in which the names of the directors and their place of origin were not inscribed in legible characters. Mr. Ellis Cunliffe, who prosecuted for the Board of Trade, said that the directors had applied for exemption from the provisions of the Act, but it had been refused. The letter heading referred to the particulars given on the back of the sheet. Mr. Percival Clarke, for the defence, said that Lord Moulton, the Director-General of Explosive Supplies, had backed up the application for exemption. The brothers Fuerst (one of whom has changed his name to Forster) have been naturalised in this country for over forty years. The Alderman, after inspecting the letters, held that the particulars given under the Act were not inscribed in legible characters, and ordered each of the four directors to pay a fine of 10s., and 1s. costs.

Pharmacy Act (Ireland).—At the Graiguenamanagh (co. Kilkenny) Petty Sessions on May 1, at the suit of the Pharmaceutical Society of Ireland, Mr. Wm. Patrick Kennedy, Ph.C., was charged with having on February 20 kept open the Medical Hall, Graiguenamanagh, for the dispensing and compounding of medical prescriptions, without having a duly qualified pharmaceutical chemist or licentiate apothecary in charge. Mr. Wm. C. Meeke, solicitor, for the Pharmaceutical Society, stated that defendant, a duly qualified pharmaceutical chemist, had for many years carried on his principal establishment in Borris, co. Carlow, and a branch establishment in Graiguenamanagh. The latter establishment had been carried on contrary to Section 17 of the Act of 1890, to his (Mr. Meeke's) own knowledge, for over ten years. At present the place was in sole charge of Patrick Keenan, who had no qualification of any kind. The defendant was in the habit of coming over to Graigue occasionally from Borris, but his visits were so rare that it could not be seriously contended that he was able to exercise any continuous supervision over the establishment. Evidence was then given that prescriptions were compounded at the establishment by Mr. Keenan. Mr. Keenan had been subpoenaed for the prosecution, but the defendant put in a certificate stating that he was laid up with a septic arm. Mr. Kennedy made a statement explaining how he conducted the business at Graiguenamanagh, and he stated that when he left Borris he closed up the establishment there. Mr. Meeke proved that there had already been four convictions against the defendant—two in May 1908 and two in July 1914. The Magistrates announced their intention of fining the defendant 2s., with 1s. costs. Mr. Meeke said he had no objection to the small penalty, provided the defendant would undertake to discontinue his illegal business. Mr. Kennedy refused to give an undertaking, stating that he would not be coerced. The Magistrates imposed a fine of 4s., with 1s. costs.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on April Analytical Exercise.

THE powder distributed to students on April 9 contained 1 part by weight of lead chloride, 1 part of bismuth carbonate, and 8 parts of calcium sulphate. The calculated composition of such a mixture is:

Pb	...	...	...	...	7.5
Bi	...	...	...	...	8.0
Ca	...	...	...	...	18.6
Cl	...	...	...	...	2.5
CO ₃	...	...	...	...	1.2
SO ₄	...	...	...	...	44.7
O	...	...	...	...	0.6
H ₂ O	...	...	...	...	16.9
					100.0

The powder also contained, as impurities, traces of iron and of ammonium.

Samples of the powder were distributed to twenty-seven students, and eleven reports were received for examination. All our correspondents detected the sulphuric-acid radical. The failures in the detection of the other main constituents were:—(a) Metallic radicals: Lead, 6; bismuth, 2; calcium, 1. (b) Acid radicals: Hydrochloric, 1; carbonic, 10. Two students failed to report water evolution when the powder was heated in a dry test-tube.

The most prominent feature in connection with the reports submitted on this occasion was the nearly uniform failure to note any indication of the presence of the carbonic-acid radical. The proportion of this radical present was small, and when a few grains of the powder were mixed with dilute hydrochloric acid in the cold, the evolution of gas bubbles was not observable unless very little of the acid was used, since any considerable quantity of the dilute acid supplied enough water to retain all the carbon dioxide in solution. On gently warming, however, minute gas bubbles could be observed to escape. When a small quantity of the powder was mixed with two or three drops of cold concentrated hydrochloric acid, gas evolution was quite distinctly visible on close observation, the carbon dioxide not being so completely retained in solution by the concentrated as by the dilute acid. This last indication is one which should always be looked for with special care in the preliminary testing, and followed up for confirmation if observed.

PRIZES.

The First Prize for the best analysis has been awarded to J. W. B. YOUNG, 30 Square, Kelso.

The Second Prize has been awarded to

D. G. EVANS, 7 Hatherley Street, Princes Avenue, Liverpool.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

J. W. B. Young (1st prize)	...	...	...	...	69
D. G. Evans (2nd prize)	68
Jayjay	58
Melonia	54
Mark	49

2. Correspondent who is qualified:

Snavel	70
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TO CORRESPONDENTS.

J. W. B. YOUNG.—Note that a positive result with the hepser test merely indicates the presence of sulphur in some form, and is not a proof that it is present as a sulphate.

D. G. EVANS.—Both chloride and cyanide are completely precipitated by silver nitrate in presence of nitric acid; hence it is futile to test for cyanide in the filtrate obtained on removing the precipitate which excess of silver nitrate has yielded with a solution containing nitric acid. The powder did not contain a nitrate. Read the preceding reply.

JAYJAY.—It is unfortunate that you did not follow up the suggestion of a carbonate which you obtained from the evolution of gas bubbles upon treating the powder with concentrated hydrochloric acid, and that you permitted yourself to be deceived by the odour of the hydrochloric acid itself into supposing that chlorine from a chlorate was being evolved.

MELONIA.—By some strange error in procedure (or in reporting thereon) you describe the addition of nitric acid to the portion of the prepared solution for acidic radicals in which you tested for a nitrate. If you really did this, it is remarkable that you failed to detect the nitric-acid radical you had added. How you failed to detect lead is not apparent, as your mode of testing seems to have been quite in order.

MARK.—It would appear from your report that you omitted to apply any test for lead.

JUAN.—The black precipitate which you obtained in the zinc group was due to lead and bismuth incompletely precipitated in the copper group.

E. M. OLIVER.—Only a trace of iron was present, and the apparent abundance which you report may have been due to impurity in the nitric acid you used for oxidation. On boiling a considerable quantity of the March powder with dilute sulphuric acid and a drop of potassium permanganate the colour of the latter was very slightly discharged, most likely on account of traces of organic impurities being present in one or other of the acetates composing the mixture.

SECUNDUS.—The distinction of being the only correspondent who detected the carbonate is seriously discounted by your failure to detect both lead and bismuth through employing a too strongly acid solution. The complication in the zinc group was due to the unprecipitated lead and bismuth. Oxalate was not present.

CORSE.—Heating part of the original hydrochloric-acid solution of the powder with excess of sodium hydroxide did not result in the complete solution of the precipitate at first produced, since the precipitate due to bismuth is insoluble in sodium hydroxide; and even if it had dissolved entirely, your conclusion as to the possible presence of magnesium was not correct, since the precipitate due to magnesium is also insoluble in sodium hydroxide. Tin was not present.

SNAVEL.—The precipitate which you took for aluminium hydroxide most likely consisted of calcium sulphate, which is pretty freely soluble in hot dilute hydrochloric acid, but is often partially precipitated when the acid is neutralised. Your persevering efforts to prove the presence of a trace of an ammonium salt led you to a quite accurate result, a trace of ammonium chloride being present in the lead chloride. This trace was the cause of the faint sublimate observed by yourself and a few others. Your remarks regarding the tournament are noted, with thanks, and shall be duly considered.

THE ANALYTICAL TOURNAMENT.

The analysis just reported upon being the concluding exercise of the present Tournament series, we are now able to announce the awards in this special competition. Notwithstanding the serious depletion of the junior ranks of pharmacy, forty-three students took part in the competition, and good work was done by a number of these throughout the session.

The first place in the competition has been taken by "Single Seidlitz" (Mr. J. W. B. Young, 33 Square, Kelso) with the very satisfactory aggregate of 538, made up of 76, 84, 97, 96, 97, and 88, and to him the first prize of books to the value of 2l. 2s., with a certificate, has been awarded.

The second prize of books to the value of 1l. 1s. and a certificate have been awarded to "Snavel" (Mr. Isaac Evans, 47 Upper Perry Hill, Southville, Bristol), who attained the aggregate of 456, made up of 81, 70, 72, 81, 92, and 70.

The third place has been taken by "Jayjay" (Mr. J. J. Witten, 51 Hendon Road, Sunderland) with an aggregate of 451; but as Mr. Witten gained the third prize in last session's Tournament and is debarred by the terms of the competition from taking a prize this session, "unless it be a superior one to that previously gained," the third prize of books to the value of 10s. 6d. and a certificate have been awarded to "Melonia" (Mr. Frederick J. Dyer, 4 St. Mildred's Road, Westgate-on-Sea), whose aggregate is 446, made up of 78, 62, 85, 76, 70, and 75.

We congratulate these competitors on the successful results of their work, and we thank the other participants in the competition for their interest and for many meritorious reports. We shall be glad if the prize-winners will communicate at once with the Publisher, stating the books which they desire to receive as prizes.

Births.

CURTIS.—At Folkestone, on May 4, the wife of Archibald R. Curtis, chemist and druggist (F. G. Curtis & Sons, pharmacists, Sandgate Road), of a daughter.

WATKINS.—At "Avalon," Burlington Avenue, Kew Gardens, London, S.W., on May 4, the wife of Charles W. J. Watkins, chemist and druggist, of a daughter.

Deaths.

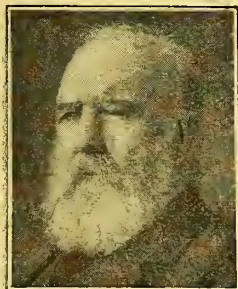
AUSTIN.—At 57 Ivor Road, Sparkhill, Birmingham, on April 27, Mr. Josiah Austin, chemist and druggist, formerly of Nechells Green, aged eighty-seven.

BUCHANAN.—At 17 The Pavement, Clapham Common, London, S.W. 4, on May 5, Mr. Albert Buchanan, M.B., B.A., father of Miss Margaret E. Buchanan, Ph.C., aged eighty-two.

GALL.—At 18 Thoroughfare, Woodbridge, on May 2, Fanny, wife of Mr. Alfred Gall, chemist and druggist, aged seventy-six. The funeral took place at St. Mary's Church, Woodbridge, on May 4, and was numerously attended.

GLOVER.—At Fennybank, St. Helens, on May 4, of pneumonia, Mr. Edward Glover, aged forty-eight. Mr. Glover joined the staff of Mr. Thomas Beecham in 1887, and recently became a partner in the firm. He was an active member of the Special Committee of the Owners of Proprietary Articles Section of the London Chamber of Commerce.

HOGG.—At 120 Cliftonpark Avenue, Belfast, on May 1, Mr. James Hogg, chemist and druggist (James Hogg, Sons & Co., Ltd., chemists, York Street), aged seventy-five. Mr. Hogg, who was born in the Saintfield district, founded in 1866 the business with which he was identified, and was perhaps the oldest member of the drug-trade in Belfast. He retired this year, his interest in the business having been acquired by Mr. William Mann. He was an elder of the York Street Presbyterian Church, in which he was Clerk of Session for forty years. He is survived by a widow and three sons—Dr. W. J. Hogg, Mr. Samuel Hogg, Ph.C., and Mr. J. A.



MR. JAS. HOGG.

Hogg, B.A. The funeral took place on May 3, and was largely attended.

LACEY.—At 3 St. Giles' Street, Norwich, on May 5, Jessie Peters, wife of Mr. William James Lacey, chemist and druggist, aged thirty-five.

LUKE.—At South Street, Milnathort, on May 2, suddenly, Mr. Frank Porteous Luke, chemist and druggist. Mr. Luke qualified in 1905.

UPFILL.—At 102 Rodney Road, London, S.E., on April 27, Mr. William Thomas Upfill, chemist and druggist, aged seventy. Mr. Upfill was well known in South London, where he had carried on business for nearly fifty years. The funeral, which took place at Nunhead Cemetery on May 2, was largely attended, and there were many wreaths.

VORLEY.—On May 6, after an operation, Mr. Henry Alfred Vorley, 28 North End Road, Golder's Green, London, N.W., aged fifty-three. Mr. Vorley was secretary of John Gosnell & Co., Ltd., Blackfriars Road, London, S.E., with whom he had been for upwards of thirty years.

Died on Service.

BAXTER.—At Wei-hai-Wei, on March 24, of typhus fever, Mr. Alexander Kidd Baxter, M.B., Ch.B., Edin. Dr. Baxter began his career as a pharmacist, serving his apprenticeship with Duncan, Flockhart, Powell & Co., Leith, and passing the Qualifying examination in 1891. He subsequently took degrees in medicine, and went to China as a missionary. Latterly he had been medical officer at a recruiting depot where drafts for labour battalions on the French and other Fronts are made up.

BOYD.—Second-Lieutenant David Thomas Boyd, Cameronians (Scottish Rifles), was killed in action on May 3, 1917. He had been reported missing since that date

(C. & D., 1917, p. 463). Second-Lieutenant Boyd served his apprenticeship with his father, Mr. David Boyd, Ph.C. (D. Boyd & Co., chemists, Donegall Square North, Belfast), and in 1912 qualified as a registered druggist. He received his commission in 1915, and went out to the Front in the early part of 1916.

COWBURN.—Private Frank Cowburn, Royal Warwickshire Regiment, has been killed in action, aged twenty-two. Prior to enlisting in April 1916, Private Cowburn was on the clerical staff of Stotherts, Ltd., wholesale chemists, Atherton.

ECCELESTON.—Private Arthur Eccleston, East Lancashire Regiment, has fallen in action, aged thirty-three. Private Eccleston enlisted from the Radcliffe branch of Waller & Riley, Ltd., chemists.

FIELD.—Private J. Field, Lancashire Fusiliers, has been killed on service. Prior to enlistment Private Field was with Vernon & Co., Ltd., surgical-dressings manufacturers, Penwortham Mills, Preston.

FORD.—Pioneer Edward Thomas Ford, R.E., has died of wounds received on service. Pioneer Ford was for seven years an assistant with Mr. Frederick W. Wrench, Ph.C., Silverdale, Staffs.

HEGARTY.—Staff-Sergeant Michael Francis Hegarty, R.A.M.C., is reported killed on March 24. Staff-Sergeant Hegarty served his apprenticeship in a Mallow pharmacy, and was subsequently for several years senior assistant to Mr. John Smith, Ph.C., Torenure Road, Dublin. He had been on active service in France for over two and a half years.

HENSON.—Gunner Edwin C. Henson, R.F.A., died in hospital in France from gas-poisoning, on April 28, aged thirty-two. After qualifying as a chemist and druggist in 1909, Gunner Henson was for several years dispenser at the Army and Navy Stores, and at the time of joining the Colours was with Boots, Ltd., at their Bishopsgate branch in London. He had seen about ten months' service in France and had been through some heavy engagements.

INGHAM.—Private Percy Ingham, Duke of Wellington's West Riding Regiment, has been killed in action, aged twenty-three. Private Ingham, who in civil life was clerk and traveller to Mr. R. A. Bell, wholesale chemist, Huddersfield, joined the Territorials at the age of sixteen, and was mobilised on the outbreak of war. He went out to France over three years ago.

MOUNTFIELD.—Private J. G. Mountfield, Royal Welsh Fusiliers, has died of wounds received on service. Private Mountfield enlisted from the staff of James Woolley, Sons & Co., Ltd., Manchester.

MUCKLEY.—Private Thomas Muckley, South Lancashire Regiment, has been killed in action. Prior to enlistment Private Muckley was with H. D. Pochin & Co., Ltd., manufacturing chemists, Warrington.

PEDDER.—Private L. Pedder, Worcestershire Regiment, has been killed on service at the West Front. Private Pedder enlisted from the Swindon branch of Boots, Ltd.

PRICE.—Private Richard Price, K.S.L.I., has been killed in action. Prior to joining the Army he was an assistant with Boots, Ltd., at Pride Hill, Shrewsbury.

SHAW.—Signaller W. W. Shaw, South African Light Infantry, is reported killed in action. In pre-war days Signaller Shaw was with Boots, Ltd., at their Accrington branch. He enlisted in South Africa on the outbreak of war.

STRICKLAND.—Gunner Joseph Strickland, Royal Garrison Artillery, was killed in action on April 26, aged thirty-four. Gunner Strickland passed the Qualifying examination in 1910, and carried on business at Wellingborough Road, Northampton, till his enlistment in April 1917.

CELLULOSE IN BREAD.—Experiments are being carried out in Norway to ascertain whether it is possible to use cellulose as a breadstuff.

SYNTHETIC INDIGO.—The "Chicago Tribune" states that 1,000 lb. of 20-per-cent. paste (for synthetic indigo) is produced daily at Midland, Mich.

A CARGO of potash carbonate, valued at \$1,000,000, the property of the Central War Industrial Committee of Russia, and sent for distribution among various chemical firms in New York, has been seized by the United States Government.

PRESIDENT WILSON has signed the Webb Export Bill, which permits combinations of exporters in promoting trade in foreign countries and places them on an equal footing with their European competitors. It is regarded by exporters as an effective means of combating in foreign markets the German cartel system.

Personalities.

MR. E. D. HUGHES, chemist and druggist, Crickcieth, has been appointed a member of the Crickcieth Urban Council.

MR. E. D. JONES, chemist and druggist, Llangollen, has been re-elected Chairman of the Corwen Board of Guardians.

HENRY C. QUELCH & CO., Ludgate Square, London, E.C., ask us to state that Mr. W. J. Brimson is no longer in their service.

MR. J. B. WILSON, chemist and druggist, High Street, Dorking, has been re-elected Chairman of the Dorking Urban Council.

MR. GEORGE DUNN, chemist and druggist, Church Stretton, has been re-elected Chairman of the Church Stretton Urban Council.

MR. J. H. TAYLOR, 54 Highbury, Newcastle-on-Tyne, who was for many years with Parke, Davis & Co., London, has been elected a Fellow of the Chemical Society.

MR. HERBERT W. COLLEY, chemist and druggist, ex-President of the Proprietary Articles Trade Association, has been co-opted to fill a vacancy on the Grimsby Board of Guardians.

MR. BENSON HARRIES, chemist and druggist, Chairman of the Newport (Mon.) Pharmacists' Association, has been elected a member of the Managing Committee of the local Chamber of Trade.

MR. ARTHUR ROBERTSON CUSHNY, at present Professor of Materia Medica and Pharmacology in the University of London, has been appointed Professor of Materia Medica in the University of Edinburgh, in succession to Sir Thomas R. Fraser.

MR. R. W. BROWNLOW, chemist and druggist, Melton Mowbray, has been re-elected Vice-Chairman of the Melton Mowbray Board of Guardians. The choice was unanimous, and several members of the Board spoke in high terms of Mr. Brownlow.

MR. JOHN G. EWING has taken up the position of works chemist with G. Steven & Co., manufacturing chemists, Cornbrook Works, Chorlton Road, Manchester. Mr. Ewing was formerly in the employment of Duncan, Flockhart & Co., Barron, Harveys & Co., Ltd., and Hough, Haseason & Co., Ltd.

MR. JOSEPH ATTO, an employé of Dakin Bros., Ltd., 82 Middlesex Street, Bishopsgate, London, E. 1, is "eighty-five years of age and as bright and cheery as ever," states the "Daily Mail." He has been an ardent cyclist for years, and on his seventieth birthday cycled on one day to his native town—Lynn—a distance of a hundred miles, and returned the next day by the same means.

MR. W. SHADFORTH, Ph.C., 63 Grove Road, Bow, London, E., has sent a spirited protest to Sir Edwin Cornwall, M.P. for North-East Bethnal Green, regarding the injustice to chemists of the Venereal Disease Act. Mr. Shadforth announces his intention of disregarding the Act and his refusal to pay fines if convicted of infringing the law. Mr. Shadforth has followed up his protest by an open letter in the "Bethnal Green News," in which he shows up the way in which the medical profession is exploiting the monopoly which the Act has given it. The matter was also brought up at the meeting of the Bethnal Green Borough Council last week, when Mr. Shadforth tried to get the Council to disassociate itself from the insulting references to pharmacists which are made in circulars distributed by order of the Local Government Board.

THE brothers Fuerst, directors of Fuerst Bros., Ltd., against whom a police-court case is reported on p. 37 for contravening the Companies (Particulars as to Directors) Act, were born in Swabia, a small district on the Lower Rhine, which was not at that time part of the German Empire. It was incorporated in 1871, and in 1874 the brothers Fuerst, who were boys at the time, were brought to this country by their father, who decided that they should leave their native country owing to his objection to Prussian domination. After completing their education in this country J. F. Fuerst and Jules Fuerst adopted a commercial career, and took out letters of naturalisation in 1882 and 1884, that being as early as they could do so. The business of Fuerst Bros. was founded in 1884, and converted into a limited company in 1917. Mr. J. F. Fuerst in 1916 changed his name to Forster.

ADULTERATED HONEY.—A Bohemian paper relates that recently the municipality of Gablonz bought 6,000 kg. of honey for sale to the public, but that on examination 40 per cent. of the substance was found to consist of glue.

Trade Notes.

ZOKA TOOTH-CREAM is strikingly advertised in this issue by the White Band Manufacturing Co., Ltd., South Croydon.

SYRUP OF FIGS (HODGKINSON'S).—The new label for this syrup when bought in bulk is shown in the advertisement in this issue of The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N.

LIQUID PARAFFIN is being refined in this country by the Pure Russian Liquid Paraffin Co., Ltd., 3 St. Helens Place, London, E.C. 3, which should be borne in mind in view of the increasing demands for mineral oils in pharmacy.

PRICE ADVANCES.—The minimum retail prices of Benger's Food have been advanced as follows: 1s. 4d., 2s., 3s. 9d., and 7s. 6d. (the 12s. size has been withdrawn). The minimum retail prices of Ovaltine are now 1s. 6d., 2s. 6d., and 4s. 6d.

AMBRINE AND STANNOKYL.—Ambrine in a form suitable for domestic use is referred to in the advertisement of the Anglo-French Drug Co., Ltd., Gamage Building, Holborn, London, E.C. The company also give particulars of Stannokyl, which is used in the treatment of carbuncles, boils, acne, styes, etc.

LANOLARD.—We have received a sample of lanolard, a lard substitute which is made by Howard Lloyd & Co., Ltd., manufacturing chemists, Leicester. Lanolard, which is a pale lemon colour, has a lanolin basis, and is of good consistence for use in ointments now that lard may not be employed for the purpose.

J. R. CAVE, LTD., 169 Lord Street, Southport, chemists and photographic specialists, intimate in the Coloured Supplement that they are open to develop films and print promptly, their motto being "Speed with Excellence." A noteworthy feature of the announcement is that the work will be done at pre-war prices.

BELL'S MONTHLY NOTES.—John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E. 1, embody information regarding the new products they manufacture, and convey to their customers alterations in prices, by means of a circular known as "Bell's Monthly Notes." The April issue has some bright paragraphs on optimism, salesmanship, and similar subjects.

SACCHARIN TABLETS.—With the object of meeting the difficulties in regard to the allocation of supplies of saccharin tablets among their customers, Jules Denoual & Co., Carlton Works, Asylum Road, Peckham, S.E. 15, now send out a *pro forma* invoice of goods which are ready to be despatched immediately on receipt of remittance. The selection is guided by the packings available and the usual requirements of the customer. All customers' names are registered, and they will hear from the firm whenever the tablets are on offer.

DEPOSIT ON SYPHONS.—Camwal, Ltd., 112 Pembroke Road, Caledonian Road, London, N., announce that on and after May 1 the company will charge, on invoices for waters contained in syphons, a deposit of 6s. per dozen for syphons and 2s. for each case. The method of adjusting the charge with the previous practice of deposit is that on and after May 1, as empties are returned from chemists they will be credited against the old balances of syphons and cases outstanding on May 1 until such balances are cleared; after the clearance of the old balances the deposit charges of 6s. and 2s. on syphons and cases which are returned will be credited in accounts. The remaining liability of 18s. per dozen for tin and 24s. per dozen for silver-topped syphons will be regarded as a loan from the company, leaving the total liability as before—viz., 24s. and 30s. per dozen respectively. A similar method will be adopted as regards cases or boxes. Chemists can assist in the present difficult situation, caused by shortage of syphons and cases, by returning empties as promptly as possible.

Information Department.

INFORMATION WANTED.

- | | |
|---|---------------------------------------|
| 73/22, makers or suppliers of wax bottles with wax stoppers for holding hydrofluoric acid (1 lb.) | 74/71, "Nevana" soap |
| 74/71, "Aurozore" nasal douche | 74/64, Beck's Paste |
| | 74/6, Seskole or Leskole thermometers |
| | 16/8, "Mentholeate" |

INFORMATION SUPPLIED.

- | | |
|---------------------------------|-----------------------------------|
| Aerosyl, 68/62 | Chemists' overalls, 222/63 |
| Aluminium boxes, 66/45 | Chologestin, 248/66 |
| Bacterol, 43/28 | "Ciefa," 31/29 |
| Baines' Dielectric, 58/54 | "Cinnamint" tablets, 235/43 |
| "Barkola" compound, 48/6 | "Cirola" bark-extract, 216/15 |
| "Boval" asthma cigarettes, 1/42 | Clark's Glycola, 228/4 and 259/42 |

Observations and Reflections.

By Xrayser II.

The Report of the Organisation Committee

seems to have completely flabbergasted the Council. They are as afraid of this creature of their own wisdom as Imogen was of her own sword; indeed, their attitude towards it is exactly that of fear itself, as depicted by Collins:

First Fear his hand, its skill to try,
Amid the chords bewildered laid;
Then back recoiled, he knew not why,
Even at the sound himself had made.

They don't know what to do with it, they are afraid to handle it, they speak of it with bated breath—as a "crude report" that won't bear talking about, at least in public, and the President suggests that it may be rejected. Yet in Staffordshire he held it out as rendering all outside talk about reform an impertinence. Why should we fash ourselves about territorial representation, or what not, when such a scheme as this was on the point of promulgation? Of course this had nothing to do with the impending election; it is only those wicked progressives who stoop to make electioneering capital out of the parturient pains of the Council. But one cannot but want to know what this report is really like. Shall we ever know what it was before it had been licked into shape by the Council in secret conclave? Shall we ever know anything more at all about it, except that it has been shelved? Anyway, one of two things may be inferred: either it is not "revolutionary" enough to catch votes with, or it is too much so to be allowed to transpire under modification.

The Six Names

appended to your report of the Pharmaceutical Reform Committee's proposals could not be bettered, and the fact that they support the proposals is in itself a good reason why we should support them. Those of them who are new candidates are as certainly the best of that group as Mr. Campkin and Mr. Guthrie are the best two of the retiring members. But who is to be the seventh man? We may accept with equanimity any one of the others if these six are returned, and it is late now to make a further selection; the ranks are set, the lists closed; we can but cry, *Laissez aller!*

Mr. Glyn-Jones's Attitude

at Birmingham with respect to face-value should make us pause before actually appointing him to the secretaryship of the Society while he continues to occupy his post in the Proprietary Articles Trade Association. Almost everywhere except at Birmingham the Face Values Committee has been greeted with approval, and the immense majority of the trade are in favour of its policy. Only at Birmingham is it turned down, because, apparently, "the intelligent tradesmen" of that city (this is the phrase De Quincey used of the Birmingham men of his day) allowed themselves to be dominated by his "magnetic personality." He and Mr. Keall, who also represented the P.A.T.A., gave virtually the same reason for deprecating pressure on that Association. To do so would "endanger its working," evidently because, as Mr. Keall not obscurely hinted, some manufacturers will have none of it. We are, therefore, to accept with thanks such approximation to this ideal as the P.A.T.A. thinks possible, but we are not even to try to help it any further on the way to the realisation of what we all desire. If Mr. Glyn-Jones has such power over us now, what will he have when he is our Secretary? It is probably easier to rule two houses than to serve two masters, and we, at least, are easily led.

The Importance of Purely Business Questions

in comparison with what may more properly be termed pharmaceutical politics is a matter upon which differences of opinion are sure to exist, and I ought not perhaps to be surprised

that a leading champion of face-value has privately demurred to a recent note of mine upon his pet subject. I adhere, however, to the opinion that it will be a pity if preoccupation with this, or any other single business topic, has led to a slackening of interest in the larger issues involved in the election of new councillors, for this election is really, from the larger point of view, of primary importance. Upon the Council depends our whole policy with regard not only to business matters (many of which I admit that it affects but indirectly), but to our position as a statutory body responsible to the State and the public for the right discharge of our special function in the practice of medicine. In saying this I do not depreciate the importance of the face-value question, for this too comes within the purview of the Council. Not that the Council would be well advised to enter directly into a struggle with proprietors or the P.A.T.A. To haggle about prices is no part of the "protection of those who carry on the business of chemists and druggists" as it was contemplated in our Charter, and to descend to it would be a derogation of dignity on the Council's part. But the Council might well (to use a parliamentary phrase) proceed by resolution; a declaration that the principle involved in the demand for face-values has its approval, and ought, as essential to our professional character, to be upheld by all pharmacists, would have a great moral effect, and would enhance rather than lessen the dignity of the Council. Beyond this is cannot conveniently go.

Mr. Hugo Wolff

has fluttered the dovescots of the Society by his promise (or is it a threat?) to send a monthly report of the Council's meetings to every local Association, if and when he gets a seat on the Council. Judging by his little pamphlet on "The Future of Pharmacy," I do not wonder at the stir he has thus made. It is the most outspoken, and upon the whole the most sane and practical, of all the deliverances I have read on the subject. Mr. Wolff takes extreme views, and is rather given to tilting at windmills and stone walls, but in the main he is right as to facts, and his judgments, even when one cannot fully endorse them, are provocative of thought and deserve consideration. The points on which I most differ with him are these: there is no necessary fallacy in co-operative trading; its principle is perfectly sound, and it is a principle that, whether it makes for our interest or not, will increasingly prevail. We must make our account with that fact. And Mr. Wolff greatly exaggerates the value of the letters M.P.S. It is impossible to exaggerate the value of the education they presuppose, but that is a different matter, and I am surprised that so clear-headed a man as Mr. Wolff confuses the two.

Military Tribunals' Decisions.

SINCE OUR LAST REPORT the following decisions have been notified:

CAMBRIDGE.—Mr. Ernest H. Field, chemist and druggist, was exempted for three months.

PLYMOUTH.—The cases of Mr. S. V. Roberts, Ph.C., and Messrs. J. J. R. Eslick, H. M. Marcolyn, and B. T. R. Shelton, chemists and druggists, were adjourned for consultation with the National Insurance Commissioners, and for grading. The National Service Representative stated that so far no instructions had been received to vary the agreement originally come to regarding chemists.

ROCHDALE.—Mr. E. A. Wade, assistant with Mercers, Ltd., chemists, was exempted to August 31.

ROCHESTER.—Three months' exemption was granted to Messrs. A. W. Ryder and G. A. Morris, chemists and druggists.

SUTTON COLDFIELD.—Exemption was withdrawn from a chemist's assistant, aged nineteen, who, it was stated, was suffering from curvature of the spine, and required medical treatment of a special kind. It was held that under the recent Proclamation a youth had no ground of appeal save that he was the only surviving son of a widow who had lost her other sons in the war.

WELLINGTON (SOMERSET).—Mr. W. Bisset, chemist, was exempted for six months.

WOKING.—Further exemption was refused to Mr. H. H. Chadwick, assistant with Timothy White & Co., Ltd., chemists.

**BRONCHITIS, ASTHMA, COUGHS,
INFLUENZA, &c.**

"SANITAS-INHALANT"

Is now being advertised, and should be stocked
by all Chemists.

2s. 6d. BOTTLES.

*Most Effective Remedy for all Lung and
Throat Affections.*

**The SANITAS CO., Ltd.,
Limehouse, LONDON, E. 14.**

S.V.R. — S.V.M.

JAS. BURROUGH, LTD.,

D.1. Wine Distillery, Hutton Road, LAMBETH, S.E. 11.

The Price of

VIROL

Owing to its enormous importance as a food for Children, the Proprietors have so far (at considerable sacrifice) maintained Virol at its pre-war rates. But now the exhaustion of stocks purchased at lower prices, and the very great increase in the cost of materials and packing, have finally made a small increase absolutely necessary. *The new prices are only about 10 % above pre-war prices*—a trifling increase when compared with that of so many other articles.

On and after 1st May, the prices of Virol will be as follows:—

1/- Jar - 1/1
1/8 Jar - 1/10
2/11 Jar - 3/3
Half Gallon - 13/-

Purchasers who find stocks of Virol low or lacking at the shops will, we hope, recognise that the Proprietors are nevertheless making every effort to meet the heavy demand for this invaluable food for children.

VIROL LTD., 148-166, Old Street, London, E.C.1.

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**FRENCH AND ALL FOREIGN
Proprietary
MEDICINES**

Wilcox, Jozeau & Co.
49, HAYMARKET, LONDON, S.W.
Export and other Buyers should apply for a List.
Foreign prescriptions dispensed for Pharmacists.

KAPUTINE Headache & Neuralgia Cure.

1/3 size,
containing 18 doses.

1 doz... at 12/- doz.

3 " ... at 11/6 doz.

Retailing at face values.

3/- size,

containing 57 doses.

1 doz... at 33/- doz.

2 " ... at 32/6 doz.

SINGLE DOSES, 1d. each.

KOON TOE PLASTERS, 1d. Line.

Less than 1 gross ... at 9/- per gross

1 " ... at 8/6 "

3 " ... at 8/3 "

CARRIAGE.—Paid on 8/- value.

DISCOUNTS.—2½% for prompt cash, 30 days from date of invoice. AN ADDITIONAL discount of 2½% is allowed when cash accompanies order.

GENERAL KAPUTINE SYNDICATE, Ltd.

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NOTICE TO THE TRADE

ADVANCE IN PRICE OF "PYLITNA" POWDERS.

We hereby give notice that the Retail price of
"PYLITNA" Powders, Ointments and Tablets is
5/- per box.

After deducting extra sixpenny duty stamp, old stock
will show, at 5/-, a retail profit of 2/3 per box, if bought
on our best co-operative terms.

Special Wholesale Terms for Co-operation.

G. S. MUMFORD & SONS, Farringdon Rd., LONDON, E.C.1.

Sugar is not required—if

Fletcher's Concentrated Liquors

are used in place of the corresponding Syrups.

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Essential Drugs Supply.

LAST week we dealt with the Final Report of the Committee on Commercial and Industrial Policy, but since then the "Interim Report" on certain essential industries, mentioned on page 44 in our previous issue, has been published as a White Paper [Cd. 9032, price 2d.]. This Report deals mainly with certain special commodities that are absolutely indispensable to important British industries, and were supplied before the war

entirely or mainly from present enemy sources or from sources under present enemy control. These include synthetic dyes, spelter, tungsten, magnetos, optical and chemical glass, essential drugs, etc. The Committee states that it seems to be certain that in the future these industries will always require special and separate consideration, and that no general measure will be sufficient to meet their varying requirements. In these circumstances the Committee recommends the establishment of a permanent Board—which might be called the Special Industries Board—charged with the duty of watching the course of industrial development, and of framing from time to time, when necessary, either on its own initiative or on the application of interested Departments or persons, detailed schemes for the promotion and assistance of industries concerned. This organisation, it is recommended, should take the form of a Board of commercial and industrial experts, associated with whatever Department of State is entrusted with the care of the commercial and manufacturing interests of the country and represented in Parliament by the political head of that Department. It is suggested that it should be a statutory condition that no State grant or subsidy should be given to any industry except on the recommendation of this Board, and that the firms who receive it must be entirely British.

In an appendix to the Report is a belated memorandum on the Supply of Essential Drugs, which has been furnished by the National Health Insurance Commissioners and dated October 2, 1916. Evidently somebody was not proud of this memorandum, as it bears unmistakably the stamp of the work of amateurs, which is perhaps natural, seeing that the Commission is chiefly concerned in maintaining the supply of medicines to insured persons, and has a parochial outlook. The question as to whether the Empire can be made self-supporting in regard to the drug-supply is divided into (a) raw materials and (b) manufactured chemicals. Under the first heading consideration is given to bromine, bismuth, iodine, potassium, mercury, home-grown medicinal herbs; vegetable products obtained from overseas, cinchona, ipecacuanha, coca, and opium. Our space is too valuable to publish the details given under these headings, as they largely consist of facts already well known to the drug-trade. Certain figures, however, in regard to the home consumption of these medicinal chemicals, which the Commission in its official capacity has been able to elicit, are of interest, and these we give:

Bromine.—The normal consumption of the salts of bromine in the United Kingdom may be estimated at 100 tons, of which some 75 tons are required for medicinal purposes. In addition, about 80 tons were before the war exported annually. Since the outbreak of war the United Kingdom has supplied large quantities of bromides to Russia and Italy, who formerly obtained their supplies chiefly from Germany, and the total trade of the country in bromides for home consumption and export in 1915 was probably not far short of 300 tons. It is important that commercial supplies of bromine should be obtained within the Empire, and surveys should be undertaken with a view to the discovery of such sources. Canada would seem to offer perhaps the most promising field for investigation.

Considering that the United States has practically unlimited supplies of bromine which partly run to waste, it would seem a doubtful commercial proposition for Canada to embark on what might prove a costly undertaking.

Bismuth.—The normal amount of bismuth used in the United Kingdom may be estimated at about 80 tons of the metal annually, of which about 30 tons is exported in the form of salts. Since the outbreak of war the consumption has greatly increased, and the total amount now used for the manufacture of bismuth salts for medicinal purposes for home consumption and export is about 250 tons.

After referring to the Bolivian bismuth-mines as our chief source of supply, the Commission state that "bismuth is obtained in substantial quantities in Australia, and deposits have recently been discovered in South Africa. These sources of supply should be developed and surveys undertaken for the discovery of other deposits." The fact should not be overlooked, however,

that there is a good deal of English capital invested in the Bolivian mines, and that the quantities obtained from Australia have not been "substantial" in comparison.

Iodine.—Normally the United Kingdom requires about 70 tons of crude iodine annually, nearly all of which is used for medicinal purposes. About two-thirds of this quantity is needed for home consumption, the remainder being exported mainly in the form of medicinal salts and preparations, but also, to a comparatively small extent, as crude iodine. Since the war began the amount required for medicinal purposes for home consumption and export has been at the rate of about 250 tons annually.

The Commission makes a number of tentative suggestions as to increasing the iodine production from kelp, but it admits Government assistance would be necessary to counteract opposition from the international Iodine Syndicate. The Commission considers it advisable that a large stock of iodine should be maintained in this country under Government control.

Potassium.—In view of the great importance of potash it is most desirable that deposits should be discovered within the Empire. Surveys by competent geologists should be undertaken in areas which from their geological formation might be expected to contain potash, and a thorough investigation should be made as to possibilities of the economical production of potash from the seaweeds of the Canadian Pacific Coast.

The Commission refers to the world's dependence on the Stassfurt deposits, the total amount exported from Germany in 1913 being over 1,800,000 metric tons, and the value over 4,555,000/. No reference is made to the Alsace deposits nor to the possibility of home production from blast-furnaces.

Mercury.—The quantity of mercury used in this country, either in the form of metallic mercury or in the manufacture of mercury salts for home consumption and export, is about 500 tons, but by far the greater part of this is used for industrial purposes. The quantity used for medicinal purposes is probably not more than 50-100 tons, of which about 20-30 tons are needed for home consumption.

It is suggested by the Commission that New Zealand and Australia should be capable of supplying all the mercury needed in this country for medicinal use. The New Zealand Government, we may add, has for many years past offered a bonus to quicksilver producers, but the prospects are evidently not sufficiently alluring to capitalists, and Australia has never produced mercury in commercial quantities. The Report next deals with the supply of home-grown medicinal herbs, of which four only—*belladonna*, *henbane*, *foxglove*, and *colchicum*—are regarded as essential. Of these, *belladonna* is the most important, but it is difficult to give an idea of the quantity required for home consumption. It has been estimated at 50 tons of the dried leaves and 100 tons of the dried root. The quantities of *henbane*, *foxglove*, and *colchicum* required are very much less, and the conclusion is arrived at that this country could be made self-supporting in the supply of these herbs, as, since the foreign supplies have been cut off or curtailed by the war, the home production has greatly increased, and is now probably not far from sufficient for home requirements. The position in regard to *cinchona* and *quinine* is dealt with at length, the opinion being expressed that it is probable that the world's production of quinine at the present time is "not below the normal," but what this is is not stated. It is interesting to note that the amount of quinine produced in the United Kingdom is adequate for home requirements, but then the United Kingdom was always a small consumer. Reference is made to the Government quinine-factories in India, the total area under cultivation being 3,468 acres, and it is suggested "it would seem worth while to take into careful consideration the possibility of so developing Indian *cinchona* and quinine production in order to make the Empire independent of outside sources of supply of *cinchona* and quinine." It is common knowledge that Java by her scientific cultivation of *cinchona* killed the Indian and Ceylon industry, and that factor would have to be reckoned with when considering any extension.

In regard to *ipccacuanha* it is suggested that the supplies from the Straits Settlements could be greatly increased, and undoubtedly they could; while of *coca-leaves* it is intimated that Ceylon could produce all that this country wants, the requirements of cocaine for legitimate medicinal use not being more than about 4 cwt. annually. Several years ago Ceylon was compelled by the British Government to uproot its coca plantations, and a vigorous protest by the planters was of no avail. The Commission hazard the opinion that it is not unlikely that before long supplies of cocaine of British manufacture will be available. This Report was written in October 1916, but we have not yet seen any of these supplies. As regards *opium*, it is maintained that it should be possible by improved methods of cultivation and collection to raise the morphine-content of Indian opium and thereby provide a satisfactory substitute for the Turkish and Persian drug. Of manufactured drugs which are regarded as essential for the country eleven only are enumerated, comprising salicylic acid, acetyl-salicylic acid, salicylate of sodium, salvarsan, neo-salvarsan, novocaine, phenacetin, phenazone, eucaine, liquid paraffin, and thymol. Before the war practically none of these drugs was made here, but they are now, and the quantities of some are on a large and increasing scale. It has to be noted, however, that it is doubtful whether British firms will be able to continue their production of these chemicals after the war if they have to meet unrestricted competition of the old-established German firms, and the Commission suggest that it may be found advisable to impose restrictions on the importation of German products, particularly those named above. Finally, it is suggested that some Department or Sub-Department of State should be definitely charged with the responsibility of fostering this new and vitally important industry. Altogether the Commission have failed to grasp the fact that we have a large export trade in chemicals and drugs, amounting to over twenty millions sterling per annum, which is a factor of fundamental importance when post-war adjustments are being made in regard to supplies of raw materials.

Chemical Warfare.

THE German Chemical Society must before long realise that the civilised world regards German chemists as unfit to mix with decent people on account of the part taken in prostituting chemistry to barbarous methods of warfare. The German Emperor has congratulated the Society upon the way the labours of chemists "have contributed so enormously to the protection of the Fatherland in the present struggle of nations." This fixes for all time the guilt of German chemists, whose punishment will be the contempt in which in future they will be held by all scientists outside Germany. Mr. Churchill, the Minister of Munitions, told the House of Commons last week something about the steps that had been taken in this country to meet the use of poisons in warfare. The present phase of chemical warfare, he stated, involves highly scientific use of lachrimatory and lethal gases. It is claimed that the British use of gases, which was taken up as a measure of retaliation, has killed more enemies than the Germans have killed of the British by this means. The Huns, however, have scored in the use of irritant gases, which have inflicted large numbers of casualties of a transient nature. The gas-masks which are used by our Army are the most efficient of any in use, said Mr. Churchill. The "Journal of the Washington Academy of Sciences" has been supplied by Major S. J. M. Auld, of the British Mission to the United States, with particulars of the gases employed by the Germans in warfare, this being the first published account on the subject. The article is of considerable interest to our readers, as it shows the progressive development of this species of warfare and of the means taken to combat it. Major Auld lectured on the methods of gas warfare before the Washington Academy of Sciences early this year. He then recounted the course of events from the first use of poison gases in April 1915. Chlorine was used on that occasion, the element in compressed form being brought to the trenches in iron cylinders. The gas was

liberated through lead pipes bent over the front of the trenches. The element of surprise was the chief factor in the success which attended this first use of gas: nothing so successful has since been achieved, even with other gases, owing to the provision of suitable respirators for neutralising the effect of the chemical agents employed. The first respirators provided consisted of a pad of cotton-wool moistened with sodium carbonate and sodium hyposulphite, with a progressive development in the form of the respirator. Information was later on obtained that phosgene was to be employed, and as an antidote sodium phenate was used in the respirators. Questions of the degree of concentration of the poison gases were dealt with by Major Auld, as these have important bearings on the kind of respirators used to neutralise the poisons. For example, increased concentration of phosgene was met by the employment of urotropine, which, in conjunction with sodium phenate, protects against phosgene of the concentration of one in a thousand. The phosgene gas appears to have been supplied by C. A. F. Kahlbaum, of Berlin, in glass tubes—a fact which should be remembered when that manufacturer seeks again to hawk his chemicals in this country. Next the Germans began the use of gas shells. This necessitated the development of the box form of respirator, which contains charcoal and alkaline permanganate, agents which are protective against chlorine, phosgene, hydrocyanic acid, and lachrymatory chemicals. The original "tear" shells contained xylol bromide or benzyl bromide, which in a concentration of one part in a million makes the eyes water severely. At the Somme in 1916 the Germans started using highly poisonous shells. Trichloromethyl chloroformate was employed, and as this chemical has no decided effect on the eyes, men were often caught with it before they had time to adjust the respirators. The monochloromethyl chloroformate was also employed, the object in all cases being to cause annoyance and confusion to the infantry. The use of "mustard gas," dichloro-diethylsulphide, was begun last July at Ypres, and the method employed is to throw large quantities of shells containing this substance into a given area. Mustard gas has a distinctive odour, but no immediate effect on the eyes, but the after-effects on the mucous membranes are very serious. Other surprises on the part of the Germans were phenyl-carbylamine chloride, a lachrymator, and diphenyl-chloro-arsine, a "sneezing gas." The following is a list of some of the compounds which the Germans have used in gas clouds or in shells:

Allyl-iso-thiocyanate (allyl mustard oil), C_3H_5NCS .
Benzyl bromide, $C_6H_5CH_2Br$.
Bromo-acetone, $CH_2Br.CO.CH_3$.
Bromated methyl-ethyl-ketone (bromo-ketone),
 $CH_3Br.CO.C_2H_5$ or $CH_3.CO.CHBr.CH_3$, and dibromo-ketone, $CH_3.CO.CHBr.CH_2Br$.
Bromine.
Chloro-acetone, $CH_2Cl.CO.CH_3$.
Chlorine.
Chloromethyl chloroformate (palite), $ClCOOCH_2Cl$.
Nitro-trichloro-methane (chloro-picrin or nitro-chloroform), CCl_3NO_2 .
Chlorosulphonic acid, SO_3HCl .
Dichloro-diethylsulphide (mustard gas), $(CH_2ClCH_2)_2S$.
Dimethyl sulphate, $(CH_3)_2SO_4$.
Diphenyl-chloro-arsine, $(C_6H_5)_2AsCl$.
Dichloromethyl ether, $(CH_2Cl)_2O$.
Methyl-chlorosulphonate, CH_3ClSO_3 .
Phenyl-carbylamine chloride, $C_6H_5NCNCl_2$.
Phosgene (carbonyl chloride), $COCl_2$.
Sulphur trioxide, SO_3 .
Trichloromethyl chloroformate (diphosgene, superpalite), $ClCOOCCl_3$.
Xylol bromide (tolyl bromide), $CH_3C_6H_4CH_2Br$.

The problem in which the chemists on both sides are engaged is to find a colourless, odourless, and invisible gas that is highly poisonous. It is within the realm of possibilities that the war will be finished, literally, in the chemical laboratory.

South African Medical and Pharmacy Bill.

CONTRARY to expectation, it now appears that this Bill, which has passed the Senate of the Union Parliament *C. & D.*, January 5, p. 42), is not to be proceeded with by the House of Assembly on the ground that the

Government desired a short Session. It was the subject of debate in the Senate in February, when Senator Marais moved that the House of Assembly should proceed with the Bill, but Sir Thomas Watt, for the Government, said it was a case of choosing between the Electoral Bill and the Medical and Pharmacy Bill, because certain Ministers could not be expected to monopolise all the time with their consolidating legislation. The excuse seems paltry, and it is difficult to believe that there was no other alternative. Evidently there is some veiled opposition in certain quarters, and great dissatisfaction is felt that much of the good work done has been lost, and that its promoters may have to start *de novo*. The Bill, it will be remembered, was a distinct advance on any previous pharmacy legislation, and was welcomed throughout the Union by pharmacists.

Council Election Literature.

It is rather alarming to imagine what might have occurred in the way of election literature this year if enthusiasm had not been effectively curbed by the paper-famine. As it is, every post seems to bring a new circular or a fresh postcard urging the claims of one or other of the twelve candidates for Council honours. Naturally, we give *place aux dames* not only because of the priority due to sex, but mainly for the reason that Miss Buchanan's circular sets forth concisely, modestly, and clearly her claims to election. She points to her experience as a retail chemist, an educationist of many years' standing, and a representative of women. Her candidature is supported by the Association of Women Pharmacists, of which she was the founder and over which she still presides. The backers of Messrs. Keall and Melhuish (including the Western Pharmacists' Association, the London County Executive, and the London Pharmaceutical Committee) refer to them as "the business candidates" and "the official candidates." No particular evidence is forthcoming as to why these gentlemen should be so designated, but it is evident that they have the backing of Bloomsbury Square, which probably accounts for the "official" denomination. In point of literary effort, originality, and piquancy, the sixteen-page folder of Mr. Hugo Wolff is easily first, and it is quite understandable that the strongest "official" opposition will be directed against the candidate who pledges himself to throw a disturbing light on the monthly proceedings at the Council. An iconoclast of the calibre of Mr. Wolff must be prepared for a strong defensive from the exponents and disciples of orthodoxy. The Cambridge and District Pharmaceutical Association urge the necessity for returning Mr. Campkin, with his long and varied experience of public service; while Mr. Pilkington Sargeant has behind him the West Riding, Bradford, Dewsbury, Halifax, Harrogate, Huddersfield, Hull, Leeds, Sheffield, "and other" Associations. A postcard from the North informs us that "Scotland is united in favour of the candidature of Thomas Guthrie, and looks confidently for the approval of England and Wales." Finally, a "powerful Committee of enthusiasts, bent on securing several needful reforms in pharmacy," state (through the Secretary, Mr. N. H. Schollar) that six of the candidates have satisfied them as to their soundness, and they recommend the election of Miss Buchanan and Messrs. Campkin, Guthrie, Kirkpatrick, Ridyard, and Wolff. It is distinctly refreshing to find so much genuine interest being taken in the attempt to introduce vitality into a body which hitherto has been regarded by a large section of the trade as perilously near to moribund.

New Companies.

MASTIN BROTHERS, LTD. (P.C.).—Capital 20,000*l*. Objects: To carry on business in several trades, including that of a chemist. R.O., 9 Breeds Place, Hastings.

BRITISH SODA CO., LTD. (P.C.).—Capital 1,000*l*. Objects: To carry on business as manufacturing chemists, drysalters, etc. R.O. 5 Gray's Inn Square, London, W.C. 1.

BARDIE, LTD. (P.C.).—Capital 3,000*l*. Objects: To carry on business as manufacturers of and dealers in chemical materials and products, exporters, importers, etc. Solicitor: W. Cook, 59 Graecchurch Street, London, E.C.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Southport.—At the monthly meeting of the Insurance Committee on April 30 (Messrs. J. Righton and F. Battersby, chemists' representatives, attending), chemists' accounts totalling 100*l*. 19*s*. for February and March were passed for payment. The Deputy-Clerk reported that in accordance with instructions he had written to the Commissioners asking permission to make a donation to the propaganda expenses of the local Committee dealing with venereal diseases. The reply was that the Commissioners were not prepared to permit this Committee to make any grant, and that under the recent amending Act the money at present in the credit of the General Purposes Fund would be laid hold of. The Chairman (Mr. J. Gordon) said the Commissioners were probably collecting all those various surpluses towards meeting the deficits on the general expenditure.

Surrey.—At the meeting of the Insurance Committee on April 24 (see *C. & D.*, April 27, p. 40), Mr. A. S. Puttock, answering criticisms respecting delay in making payments to chemists, declared that this was due to the lack of promptitude on the part of some chemists in sending in the necessary particulars to the Joint Committee for pricing prescriptions. In future, if these particulars were not in by the 4th of the month, they would be held over until the following month. The chemists would then have only themselves to blame.

West Bromwich.—Payment has been made of chemists' accounts for the four months December to March last, amounting to 572*l*. 3*s*. 11*d*. The West Midland Joint Pricing Committee report that the cost of pricing the 70,441 prescriptions dispensed in the area during 1917 was 56*l*. 0*s*. 8*d*. The index register showed the number of insured persons in the area on April 1 to be 27,787.

Yorkshire.—A meeting of the West Riding Pharmaceutical Committee was held at Leeds on April 25, Mr. F. Pilkington Sargeant in the chair. A circular which had been sent to all panel chemists in the West Riding from the Insurance Committee, cancelling the old West Riding Formulary, and intimating that only prescriptions from the 1915 Formulary and the B.P. would be accepted and paid for, has caused misapprehension. The doubts having been cleared, the position is that preparations in the old Formulary are stopped, except pil. aperiens and tab. nasopharyngeal co. As the preparations in the British Pharmaceutical Codex are also recognised (though not mentioned in the circular), prescriptions for preparations in the old Formulary must be written out in full, or, where there are equivalent formulæ in the B.P.C., the practitioners may, if practicable, prescribe them by name, always adding the letters "B.P.C." The pharmaceutical members of the West Riding Joint Advisory Committee on Recruiting having carried out their onerous duties with good results under difficult conditions, it was decided that they should remain in office. A resolution was sent to the Insurance Committee strongly protesting against the withholding of payments owing to the irregularities in prescribing of certain practitioners, and pointing out that if chemists had to return prescriptions of this nature delay and inconvenience would be caused to insured persons.

SCOTLAND.

Perth.—At the quarterly meeting of the County Insurance Committee it was reported that the total number of scripts dispensed by chemists in 1917 was 18,785, and the total cost of these, as priced by the Bureau, was 903*l*. 4*s*. 3*d*., giving an average cost per prescription of 11.54*d*. The corresponding figures for 1916 were: Scripts, 20,937; cost, 1,119*l*. 9*s*. 6*d*.; average cost per prescription, 12.83*d*. The total cost of drugs for 1917 was fully 200*l*. less than in 1916.

WALES.

Denbighshire.—At the meeting of the Insurance Committee on April 11, Sir D. S. Davies presiding, the Clerk (Mr. E. D. Jones, chemist and druggist) was congratulated on his appointment as inspector for North Wales under the Ministry of Pensions, and was warmly eulogised by all the leading members of the Committee for the valuable services he had rendered and the tactful and courteous manner in which he had carried out the duties of the office.

THE UNITED STATES GOVERNMENT has placed orders for 75,000,000 yards of bandage-cloth with many cotton-goeds mills.

Association Affairs.

East Anglia.—The quarterly meeting of the East Anglian Federation of Pharmaceutical Associations was held at Peterborough on May 2, the President (Mr. J. F. Collin, Norwich) in the chair. Mr. Bayley's resolution passed by the Federation at Norwich, protesting against the additional premium for veterinary risks, brought down Mr. Rowsell (Chairman) and Mr. Johnstone (Secretary), of the Chemists' Defence Association. Mr. Johnstone detailed the classes of cases dealt with by the C.D.A., showing that a very large portion had to do with the ordinary mixed retail, as distinct from dispensing cases pure and simple. Mr. Rowsell emphasised the fact that members were already getting all they bargained for according to the rules of the Association, and that although a substantial reserve fund had been accumulating the C.D.A. were not prepared at present to undertake veterinary risks without an additional premium. He gave a reasoned argument why the wishes of the Federation could not be complied with, but undertook that the position should be revised as soon as actual practice furnished the necessary data. Mr. Hugo Wolff then addressed the meeting on *Face-values*, pointing out how undignified it was to pharmacists to charge varying prices, and equally unsatisfactory for the public to have to pay them. He said he came in no spirit of opposition to the P.A.T.A., and was prepared to work in the closest harmony with that body, an offer which Mr. Rowsell quickly undertook to recommend to his co-directors. The forthcoming Council election was then discussed, and after hearing Mr. A. S. Campkin and Mr. Hugo Wolff, a resolution was passed promising to support them officially. A collection taken by the Treasurer (Mr. J. W. Bodger) on behalf of the Benevolent Fund realised £1. 15s. 6d. Votes of thanks were passed to the President and visiting speakers.

Great Yarmouth.—The monthly meeting of the Great Yarmouth Pharmaceutical Association was held at 156 King Street on May 1, Mr. J. S. Shearman presiding. Election circulars were read from the Associations of Cambridge, Cardiff, Derbyshire, Leeds, London County, Yorkshire (West Riding), and the Women Pharmacists' Association, and it was agreed to support Messrs. Campkin, Keall, Neathercoat, and Ridyard.

Halifax.—A meeting of the Halifax and District Chemists' Association was held at the Old Cock Hotel on April 30, the President (Mr. B. C. Hodgson) in the chair. Correspondence was read from the Face Values Committee, and a resolution was carried expressing approval of the action of the Committee in endeavouring to obtain the protection of patent medicines and proprietary articles at face-value accompanied by a sufficient and adequate profit, and of the policy of the Committee in endeavouring to obtain the support of all the multiple stores and its desire to work in harmony with and strengthen the position of the Proprietary Articles Trade Association. Election circulars were read from the supporters of Mr. F. Pilkington Sargeant, Mr. Ridyard, Messrs. Keall and Melhuish, Mr. Leo Joseph, Mr. Hugo Wolff, and Miss Buchanan. In view of the absence of definite information regarding the possible effect of the new spirit-tax upon tinctures, etc., a small Committee was elected to watch further developments, and if necessary draw up a list of prices to be circulated among the members and so ensure uniformity.

Institute of Ophthalmic Opticians.—The first meeting of the new Council was held on May 2 at the Holborn Restaurant, London, when Mr. F. W. Dadd was re-elected Chairman, Mr. W. T. Comer *Vice-Chairman*, Mr. A. W. Boatman, J.P., *Treasurer*, and Mr. J. Harcombe Cuff *Secretary and Editor*. The Rt. Hon. Lord Aldenham was re-elected President. The position of ophthalmic opticians under the new Military Service Act was discussed on the Secretary's report that he had written to the Director-General of National Service asking if he would be willing to receive a small deputation from the Institute, and pointing out the heavy demands now made on the optical trade; and finally a resolution was passed approving the Secretary's action. It was also agreed that a request be made that qualified opticians be placed on the list of exempted trades.

London (N.E.).—A meeting of the North-East London District Pharmaceutical Association was held on May 2 at the Chesterton Club, at which, after the usual business, Mr. Kirkpatrick and the officially recommended candidates (Mr. Keall and Mr. Melhuish) spoke on their views and opinions as prospective Councillors. No comments were made by the members on these views, but Mr. Goode (who was present as a visitor) was invited to speak, and he said that he wished to make no criticism on the former

speakers' views. He hoped that the members of the Association would only vote for the candidates who expressed the majority, as opposed to the "one plank" views. Also he would remind the meeting that there was a danger of giving a too extensive vote and so lessening the chance of election of any special candidate. A vote of thanks to the speakers was carried.

Newport (Mon.).—A meeting of the Newport Pharmaceutical Association was held at the Shaftesbury Hotel on April 30, Mr. Benson Harries in the chair. The Secretary read letters from various candidates for the Pharmaceutical Council, and it was decided to support Messrs. Leo Joseph, Hugo Wolff, and Kirkpatrick. The President then gave a report of various matters connected with the local Chamber of Trade, and the meeting concluded by appointing the Advisory Committee of the Pharmaceutical Statutory Committee: Messrs. Benson Harries, Findlay, Menhinnick, and Latimer Davies.—The Association's microbiology class, conducted by Mr. Arthur Brennan, B.Sc., at the Newport Technical Institute, has concluded a successful course extending from September to April. Lectures, followed by practical work, have been given in all branches of the subject. The course has been well attended by members of the Association and other Monmouthshire chemists. The Institute has also held large classes in chemistry, botany, biology, materia medica, and pharmacy for apprentices, under the supervision of Dr. R. W. Holland and Mr. Brennan, assisted by Miss W. Wilson and Mr. L. Davies, chemist and druggist.

Thames Valley.—A meeting of the Thames Valley Pharmacists' Association was held at the Scotch Café, Kingston-on-Thames, on Wednesday, May 8, the President (Mr. F. Cherry) in the chair. A long discussion took place on the proposed curriculum and the powers that the Council of the Pharmaceutical Society are seeking to take at the special general meeting on May 15 by amending the by-laws. It was mentioned that the matter had been before the craft for some years now, and proposals have been promulgated by the Society at various times, none of which have been satisfactory; especially was the present moment an inopportune one for such drastic changes, since about five hundred members of the Society are on military service. It is also necessary to consider the rights of those students who are on active service. It is felt that the regulations upon which the School Committee desired further consideration before making a recommendation should be formulated before the proposed alterations were submitted to the members. The attention of the meeting was drawn to the fact that the notice calling the special general meeting does not describe "the general nature of the business to be discussed" as required by Section XII., but merely refers to alterations proposed in the "Pharmaceutical Journal" three months previously. The following resolutions were passed:

"That the Thames Valley District Pharmacists' Association urges the adjournment of the special general meeting of the Pharmaceutical Society convened for May 15, 1918, until after the war in fairness to the large numbers of members who are absent on military service and unable to be present at that important meeting."

"That the Secretary, in conjunction with the President, should write a covering letter detailing some of the points raised in the discussion explanatory of the circumstances which warrant the reasons for the resolution."

West Bromwich.—The monthly meeting of the West Bromwich Pharmacists' Association was held on April 30, Mr. Hampton (President) in the chair. The evening was devoted principally to a discussion of the forthcoming Pharmaceutical Council election. The President gave a comprehensive survey of the records, merits, and demerits of the prospective candidates, and invited criticism and opinions on each individual case. Members responded freely with many pertinent questions and caustic comments. The Chairman spoke very strongly in favour of Mr. Hugo Wolff, with whom he has recently been much associated on the Face Values Committee. The whole matter was thoroughly threshed out, and finally, on the proposition of Mr. White (Oldbury), seconded by Mr. Kemsey Bourne (West Bromwich), a resolution was passed to the effect that the meeting strongly recommended all the members of the Association to give their support to Miss Buchanan, Mr. Hugo Wolff, and Mr. F. J. Gibson.

Women Pharmacists.—On May 3 Miss M. Buchanan and Mr. Kirkpatrick addressed a meeting of the Association of Women Pharmacists at Dr. Williams' Library, Gordon Square, London, W.C. Miss Buchanan outlined her views on the necessity of women taking a share in the responsibility of things pharmaceutical. Mr. Kirkpatrick gave his reasons for a compulsory curriculum and for better remuneration for insurance dispensing.

Lead in Commercial Cream of Tartar.

By A. J. Jones, Ph.C.

THE recent correspondence in the *C. & D.*, turning upon the suggestion to alter the standard for lead in cream of tartar from 20 to 90 parts per million, brings prominently forward, among other very important points, the irregularity in returns made by different analysts as to their respective findings of lead in particular samples. This fact is a frequent cause of difficulty and dispute between buyers and sellers, and, apart from being a great hindrance in the conduct of commercial transactions, it leaves an element of insecurity which is very objectionable.

My attention has been directed to this question for some time past, and, from the experience gained, it is believed that no serious divergencies should occur, beyond such reasonable differences as must always be allowed with tests of this character. With pure cream of tartar the B.P. test answers all reasonable requirements, but with the lower grades now upon the market, containing from 90 per cent. upwards of the pure salt, this test cannot be employed on account of the quantity of calcium salts, etc., insoluble in ammonia; yet, if a slight modification be adopted, reasonably satisfactory results can be obtained comparable with other methods. To avoid this and other difficulties a method involving ignition may be resorted to, and is an excellent process, but due precautions must be taken against the effect of iron, aluminium, calcium, and phosphoric acid present in the ash, which are probably the source of the whole trouble. The following may be stated as the result of experience:

(1) Lead added in known quantity to cream of tartar can be completely recovered by the usual colorimetric estimation after a process involving ignition.

(2) The direct method (B.P. or modified B.P.) yields results precisely similar to those given by the ignition process.

(3) The presence of iron, aluminium, and calcium phosphate in the ash may have a very disturbing effect, but with a certain procedure this can be overcome and the two methods will again be in agreement.

The effect of iron is well known and has been thoroughly discussed, but aluminium and calcium phosphate, though similar as regards adsorption, have not received much comment for easily understood reasons; but the presence of traces cannot be ignored. Small quantities in inorganic solutions, and at dilutions such as occur in the lead test, are not betrayed by an obvious precipitate upon the addition of ammonia, and the appearance of a precipitate varies with conditions even for the same quantity of aluminium. In a simple inorganic solution, using 2 mgms. of aluminium and 0.5 mgm. of lead alkaline with ammonia, only 60 to 70 per cent. of the lead was recovered, but on the addition of tartaric acid to a similar solution 90 per cent. was returned. In another case, in the presence of ammonium acetate, 85 per cent. was recovered, while with tartrate 95 per cent. Again, 5 grams of a 92-per-cent. cream of tartar was taken through the ignition process (which will be described), and 100 c.c. of a solution slightly acid with hydrochloric acid obtained. To 50 c.c. of this, tartaric acid was added and made alkaline with ammonia; it showed 104 parts of lead per million. To the remaining 50 c.c. only the ammonia was added, and it showed approximately 40 parts per million. There was no obvious precipitate, but calcium, aluminium, and phosphoric acid were present when the ash was examined. The following table shows the comparison of the direct and ignition methods, with lead in parts per million:

Variety of Tartar	Direct Method, Modified B.P.	Ignition Method
92 %	83	89
97 %	90	93
97 %	90	(a) 100. (b) 97
98 %	50	50
98-100 %	20	20

The points that it is desired to emphasise are (1) the essential agreement between the direct and indirect method; (2) the possibility of interference from aluminium and phosphate in the ash under some methods of procedure; (3) the necessity for introducing tartaric acid in the final test solution, to counteract this; (4) that a modification of the direct method can be employed with tartars containing lime, if present in not too great a quantity, but that in some cases it is necessary to ignite.

The following is an outline of the procedure adopted,

and any variation desirable for particular cases can be left to individual discretion.

The Direct Method.—Take cream of tartar, 10 grams; hydrochloric acid, B.P., 10 c.c.; water, 20 c.c.; boil and filter while hot through a 9-cm. filter. Wash carefully with about 40 c.c. of hot water. Add a crystal of potassium iodide (say about 50 mgms.) and bring to the boil. Cool somewhat and discharge the liberated iodine with N/10 thiosulphate, of which two drops usually suffice; add three drops in excess. Add 4 c.c. of 2-per-cent. hydrocyanic acid and then 16 c.c. of strong ammonia, when a yellow colour may appear, varying with the amount of iron present. Gradually bring to the boil and continue until the solution is practically colourless. Cool and adjust to 100 c.c. (if the cooling be done rapidly the determination can usually be made before any crystallisation of the calcium tartrate occurs). The solution is divided as follows:

Test	Standard
75 c.c. (7½ grms.)...	The above solution ... 25 c.c. (2½ grms.)
	Water ... 50 c.c.
	Standard lead ... The standard sought
	HCl, 2 per cent. ... 2 c.c.
	HCl, B.P. ... 5 c.c.
	Ammonia ... 8 c.c.
100 c.c. ...	Adjust with water ... 100 c.c.

The reagents added to the standard compensate the quantities already in the 75 c.c. of the test. Add the sodium sulphide and compare. With samples containing heavy quantities of lead it is best to take 5 or even 2½ grams, with appropriately reduced quantities of the other reagents.

The Ignition Method.—In the ordinary way it has not been found necessary to make a compensating solution as regards the ash, since the quantity of the other reagents used outweighs any slight effect from this cause, but in some cases it is desirable to do so. All reagents used in the test are also introduced into the standard.

Take cream of tartar 5 grms. and heat over a luminous Argand gas-lamp to char; break up the mass and heat again so as to effect a complete charring without any attempt to produce an ash. Cool, digest with 30 to 50 c.c. of water for some time. Filter bright through a 9-cm. filter. Wash the filter, and then place both paper and contents in the original ignition-basin. Dry in the oven. Ignite gently over the Argand, allowing the whole to burn away to a grey ash, which occurs without the basin becoming red-hot. Cool, and pour on very carefully, so as to avoid loss by effervescence, 4 c.c. of strong hydrochloric acid. Heat nearly to boiling, dilute with about 8 c.c. of water, and boil. Filter while hot through a 6-cm. filter into a 100-c.c. flask, and wash with 30 c.c. boiling water used in portions. Add a crystal of potassium iodide and boil. Cool somewhat, discharge the iodine with 1 or 2 drops of N/10 thiosulphate and add 3 drops in excess. Add 2 c.c. of 2-per-cent. hydrocyanic acid, followed by 3½ c.c. of strong ammonia, or sufficient to insure excess. Warm and bring to the boil so that the solution becomes practically water-white. A flocculent precipitate usually appears, more or less slight, due to aluminium and phosphate. Make the liquid quite cold, re-acidify with hydrochloric acid—about 3.5 c.c. is required—when the precipitate will dissolve. (At this stage the pink colouration of copper ferrocyanide may be seen, and with some of the lower-grade lines the tint is comparatively strong.) Next 5 c.c. of a 20-per-cent. solution of tartaric acid is added, made alkaline with ammonia, and the whole adjusted to 100 c.c., sodium sulphide added, and compared with the standard. Or it may be adjusted to 100 c.c. before the addition of ammonia if it is desired to take an aliquot part for a preliminary estimation.

As regards the method for reducing the iron, thiosulphate was suggested in a paper by Harvey and Wilkie in the *C. & D.*, July 17, 1909, but I have found the employment of potassium iodide in the manner suggested to be quicker, more reliable, and capable of dealing with larger quantities of iron than is thiosulphate alone.

This note is the result of work carried out in the analytical laboratory of Evans Sons Lescher & Webb, Ltd., Liverpool.

With certain exceptions, the sale of magnesium sulphate in Holland is only allowed under a special licence.

MYSORE SANDALWOOD OIL.—It is stated in the Mysore Administration report for 1916-17 that the sandalwood-oil factory at Bangalore started work on May 10, 1916, and manufactured 50,690 lb. of oil up to the end of June 1917. A net profit of 32,700l. (after paying 52,500l. to the Forest Department for sandalwood) was realised during the period. The value of the oil sold and in transit to the London agency amounted to 37,700l. The construction of another factory at Mysore, at an estimated cost of 20,000l., was undertaken during the year.

Trade Report.

42 Cannon Street, E.C. 4, May 9, 3 p.m.

THERE is no improvement to note in business, especially in the Mincing Lane produce markets, where merchants are busy in forming the Imperial Association of Commerce for the safeguarding of their interests which Government action has jeopardised since the war. Trading seems to become more restricted daily, and it is extremely difficult to obtain import permits to bring in necessary supplies. Crude drugs from the Far East and from the United States are held up, and for many of the roots, barks, etc., spot holders have lately asked much higher prices; this applies to cascara, bayberry, wild-cherry, slippery elm, viburnum, sassafras, etc.; moreover, the freight on these botanicals frequently exceeds the actual cost of the drug. Changes in value of fine chemicals are few. Larger supplies of potash bromide are anticipated, and the demand having fallen off, prices are easier. Acetanilide and hexamine are firmer. Milk-sugar is much dearer. Citric acid is dearer, and tartaric acid is firmer. Phenacetin, paraldehyde, and theobromine are easier. Soda hyposulphite is dearer, and arsenic lower. American peppermint oil on spot is still extremely scarce and dearer. Saccharin creates a mild excitement among speculators, prices having sharply advanced.

Higher	Firmer	Easier	Lower
Aloes (Curacao)	Acetanilide	Aloes (Cape)	Arsenic
Areca	Hexamine	Bergamot oil	Calamus-root
Bayberry-bark	Peppermint	Gum thus	Coriander- seed
Benzoin (Siam and Palembang)	oil (Amer.)	Phenacetin	Farina
Camphor oil	Quassia-chips	Pimento	Fenugreek- seed
Citric acid	Soda hyposulphite	Potash bromide	Honey
Milk-sugar	Tartaric acid		Paraldehyde
Rosemary oil			Shellac
Saffron			Theobromine
Sarsaparilla			
Sassafras oil			
Terpineol			
Wild cherry-bark			

Cablegram.

NEW YORK, May 9.—Business is fair. Menthol is firm at \$3.20. Gentian has advanced to 17c., buckthorn-bark to 22c., cream of tartar to 61½c., tartaric acid to 82½c., and Rochelle salts to 43c. per lb.

ACETANILIDE.—Owing to the small stocks available, which are steadily being absorbed, the tendency is higher at from 6s. 9d. to 7s. per lb. net. New York reports that export licences are not being granted, and spot supplies are fewer on that market.

AGAR-AGAR is steady, with sales of No. 1 obe strip in quantity at from 4s. 3d. to 4s. 5d. per lb. on the spot.

ALBUMEN is steady at 4s. 2d. per lb. on the spot.

ALMOND OIL is very firm and scarce, English pressers of true asking 3s. 4d. to 3s. 3d. per lb. Apricot-kernel oil is also very scarce and dear, English pressed being 2s. 9d. to 2s. 8d. net.

ANISE is still quoted 77s. 6d. per cwt. for Russian, but no business has been reported.

ARECA.—For single bags the higher rate of 400s. per cwt. is asked.

ARSENIC.—The market has developed further weakness lately owing to keen competition, and the agents of the chief Cornish mines now quote from about 120l. to 123l. per ton for May-June delivery in London, according to quantity. But for the delayed shipments and the difficulty in securing freight room from Eastern ports it is probable that the downward tendency would be more marked. Japanese is now obtainable easily at 120l., if not less. The demand is slow, buyers being distinctly more cautious. China has also material to spare for export, but there is not much prospect of business being arranged for shipment.

ASPIRIN is unchanged at from 12s. 6d. to 13s. per lb. English makers appear to be "cutting" prices.

ATROPINE.—Sulphate is offered by the makers at 110s. per oz. net.

BARBITONE has sellers at 110s. per lb. to arrive. There appears to be sufficient supplies on the way.

BAYBERRY-BARK is dearer at 1s. 10d. per lb. on the spot.

BENZOATES are unchanged, 19s. per lb. being quoted for benzoic acid, with little offering.

BIUMUTH TRIECOMPHOL (xicroform) is offered at 32s. per lb.

BROMIDES.—The demand for potash appears to have fallen off considerably, and the price is easier, with further sales of Japanese from dealers' hands. Further supplies of American potash are on the way, so that scarcity is likely to be relieved shortly. Soda is offered at 5s. 3d. to 5s. 6d., and ammonia is very scarce at 10s.

CAFFEINE.—Limited supplies for the home-trade are obtainable from the makers at 50s. per lb. net for the pure, dealers asking a premium of 2s. to 3s. Citrate is offered at from 32s. 6d. to 34s., as to quantity and seller.

CALAMUS-ROOT is offered at the lower rate of 130s. per cwt. on the spot.

CALCIUM LACTATE.—Neutral Continental make is offered to come forward at 7s. 6d. per lb.

CAMPHOR remains very firm at 4s. 7d. for English refined bells and 4s. 6d. per lb. for flowers. In the drug-auction 25 cases of Japanese slabs were held at 4s. 6d., and a bid of 4s. 6d. for 20 cases of 4-oz. tablets is to be submitted.

CAMPHOR OIL has advanced a further 10s. to 170s. per cwt. on the spot.

CANARY-SEED is quieter but in fair demand at 217s. 6d. to 222s. 6d. per quarter for ordinary to good Morocco.

CHLORAL HYDRATE remains firm, supplies still being stringent at 12s. 6d. per lb. for crystals in bond.

CINNAMON OIL.—Nine cases Ceylon leaf were held at 1s. 2d. per oz. in auction, a private bid of 1s. being refused.

CITRIC ACID.—An Italian advice dated April 29 offers crystals at 3s. 4d. per lb. c.i.f. U.K. ports, subject to confirmation. The London market is again higher at 3s. 4d. to 3s. 4½d.

CLOVE OIL is offered at from 21s. to 22s. per lb. net.

COD-LIVER OIL.—Our Bergen correspondent writes on April 30 that the official report gives the figures for all the Norwegian cod-fisheries up to April 27:

	1916	1917	1918
Catch of cod (millions)	41.7	21.6	14.9
Yield of e.l.o. (hect.)	50,000	31,000	15,100
Liver for "raw" oils (hect.)	4,600	3,200	3,500

Our Bergen correspondent again writes on April 23 that the winter fisheries are now closing, and the Finmarken fishing is about to commence. The official report gives the results up to April 20:

	1916	1917	1918
Catch of cod (millions)	41.1	21.2	14.2
Yield of e.l.o. (hect.)	49,600	31,400	14,900
Liver for "raw" oils (hect.)	4,400	3,100	2,700

The Christiania correspondent of "The Times" writes under date of May 6 that, "Owing to the failure of the Lofoten cod-fisheries, the paramount importance of the Finmarken cod-fisheries, which have now begun, may restore the average balance as far as this is possible. Heavy shoals of cod are reported off Finmarken, but so far, owing to scarcity of petrol, the fishermen have been condemned to idleness. A large meeting yesterday sent a telegram to the Government and entreated the release of a sufficient supply of petrol to start the season. The Government is naturally willing, but all depends on the consent of America, which has not yet been obtained, for the use of the petrol stores that are subject to restriction. Pending this permission, which, as it is sincerely hoped, will be received at the earliest date, the Government consents that from May 10 petrol cargoes may be despatched to the fishing centres in order to be available when permission is received; but it will not be distributed, for, as the Food Minister said to an interviewer, it is important that Norway's conduct should be clear in order to avoid any blame afterwards." In London, finest non-freezing Norwegian medicinal oil is offered at 415s. to 425s. per barrel, and has been sold freely at these figures.

CODEINE is steady at 30s. per oz. net for the pure crystals and 26s. net for the phosphate and other salts.

CORIANDER-SEED is lower at 70s. per cwt. for fair Morocco on the spot.

CREAM OF TARTAR is firm at 430s. per cwt. on the spot for 99 to 100 per cent. powder.

CREOSOTE (BEECHWOOD) is in improving demand, and becoming scarce at 26s. 6d. per lb.

CUBE OIL.—English distilled is offered at 40s. per lb.

CUMIN-SEED is unchanged at 65s. to 67s. 6d. per cwt. for good to fine Morocco, and at 57s. 6d. to 62s. 6d. for common to ordinary.

DILL-SEED is firm at 59s. per cwt. for good East Indian. In the drug-auction 20 bags of East Indian sold at 60s.

FARINA is lower, No. 1 offering on the spot at 80l. per ton, and March-May and April-June at 80l. c.i.f.

FENUGREEK-SEED is lower at 45s. per cwt. for Morocco quality.

GLUCOSE.—Neither liquid nor solid appears to be obtainable on the spot.

GUAIACOL CARBONATE is still offered at from 110s. to 115s. per lb. net on spot.

GUM THUS is offered at the easier rate of 100s. per cwt. on the spot.

HELIOTROPIN is quoted at 35s. 6d. per lb. on the spot.

HEXAMINE.—Although there is plenty awaiting shipment from America, permits to imports are being granted very sparingly, and owing to this fact spot prices continue to improve owing to the sustained demand. Business has been done at 9s. 3d. to 9s. 6d., and the latter price now holds firm.

HYDRASTIS is offered at 33s. per lb. net to arrive.

METHYL SALICYLATE.—Very little is to be had on the spot, and the price is fully 11s. 6d. to 12s. per lb.

MILK-SUGAR.—There is a good inquiry in spite of the high prices asked and paid. The recent arrivals (17 brls. and 25 casks) from U.S. were immediately taken up, and nobody has any accumulation of stock. The consequence is that there is nothing to stop the advance, but if the Government would release permits for importation something might be done to check the abnormal inflation.

OILS (ESSENTIAL).—The following are current quotations: *Lemon* shows a slight improvement to come forward at 3s. 9d. to 3s. 10d. c.i.f. for good brands, and spot is 3s. 6d. to 4s., the latter for finest. *Bergamot* is 20s. to 21s. on the spot, according to quantity, and 18s. 6d. to 19s. c.i.f. to come forward. *Sweet Orange* is 9s. 9d. to 10s. spot and 9s. c.i.f. to arrive. *Cajuput* is 6s. 6d. per lb., at which sales have been made. *Paraguayan Petitgrain* is 17s. 6d., and the same price is asked for *Palmarosa*. *Cananga* is 22s. 6d., and *American Spearmint* has been sold at 25s. *Spike Lavender* is very scarce at 7s. *Bourbon Geranium* is 28s., and *African* 36s. to 37s., some asking up to 42s. Distillation in Algeria has come to a standstill owing to lack of fuel; moreover, it is extremely difficult to effect shipment from there to France. Sales of 80 to 85 per cent. *Cassia* have been made at 7s. on spot. *American Sassafras* is extremely scarce at 18s. on spot. *Citronella* is firm at 3s. 3d. to 3s. 6d. on spot for Ceylon. *Lemongrass* is 7d. per oz. and *Gingergrass* 10s. 6d. per lb. *Pinus Pumilio* is 27s. 6d. to 30s. net, and *Pinus Siberica* 11s. 6d. net. Distilled *Lime* is 7s. 9d. and hand-pressed 20s. per lb.

OPTUM remains a nominal market, practically no business being reported.

PEPPERMINT OIL.—American tin oil was probably never so scarce on spot as now, with the higher price of 22s. 6d. net quoted for a case or two of finest oil. H.G.H. appears to be unobtainable, and English is offered at from 76s. to 85s., according to quality and seller.

PHENACETIN.—Competition from the United States and the arrival of fair-sized quantities on this market has led to a further ease in prices, and for quantity 27s. per lb. net is quoted.

PHENAZONE shows little change at from 49s. to 50s. per lb. Congestion on the Continental railways still affects importation, and only small consignments come forward.

PHENOLPHTHALEIN.—The firmer tendency noted last week is maintained, spot price being about 50s.

QUASSIA.—Chips are dearer at 46s. per cwt. net.

QUICKSILVER.—We understand that business has become again more difficult simply because the available supplies are more strictly reserved for absolutely essential purposes. Of course imports have been extremely light for some little time past, although it does not necessarily follow that good arrivals will not come along as soon as freightage arrangements can be made. People in close touch with the position state that there is not much chance of securing parcels at below 22l. per bottle.

QUININE.—Supplies are still arriving and further lots are on the way. Provided the Government does not commandeer them they should be sufficient to amply provide for home requirements, and leave something to spare for export. Some of the Colonies are clamouring for quinine, and exporters express their dissatisfaction at the attitude of the Government in withholding permits. The spot price of sulphate is 3s. 4d. to 3s. 5d., less 5 per cent. The landings in London during April were nil oz. and the deliveries 35,440 oz., making the stock on April 30 231,824 oz. (corrected), against 1,167,248 oz. in 1917.

ROSEMARY OIL.—Spanish is dearer at from 3s. 6d. to 4s. per lb., and finest French is quoted at from 4s. 6d. to 5s.

SACCHARIN has been selling freely on the spot, and the prices of the imported chemical have sharply advanced

among speculators, business having been done at from 380s. to 410s. per lb., duty paid. The mineral-water trade has to buy its supplies in the open market, and the demand from this quarter increases as the summer approaches. A New York advice, dated April 11, states that the demand for export still continues very heavy, and a considerable premium is being paid for goods available for prompt delivery. The future as it applies to supplies seems brighter in view of the easing up of the tuluol situation.

SAFFRON is dearer at 47s. 6d. per lb. net.

SALICYLATES.—The recent unfavourable weather appears to have exerted a restricted influence on the demand for salicylic acid, otherwise it is probable that a change for the better would have been shown in market prices. Most makers appear to be well stocked, and until the chemical moves off more freely the present low prices are likely to remain in force. *Acid* is 4s. 9d. to 5s., and sodium salicylate 6s. 9d. to 7s. per lb.

SALOL keeps firm, and as stocks are by no means plentiful buyers readily pay 10s. per lb.

SANDALWOOD OIL.—Mysore distilled oil is offered at 50s. per lb. in bulk. In the drug-auction 12 cases of West Australian oil were offered, but no price was mentioned. Parry's test showed 69 to 70 per cent. santalol.

SENEGA.—For a very limited quantity in first-hands 7s. 6d. per lb. is asked, and 7s. to arrive.

SHELLAC.—Prices are quite nominal, the spot value of TN Orange being about 335s. to 340s. and fine Orange 440s.

SODA HYPOSULPHITE is very scarce and firmer, sellers of ordinary crystals asking 60s. to 65s. per cwt.

SOY.—Both Chinese and Japanese are unobtainable in first-hands, and it is badly wanted.

TARTARIC ACID is firmer at from 3s. 6d. to 3s. 7d. per lb. on spot. In the drug-auction 40 casks of Italian crystals offered, Ogston & Moore's analysis showing the quality to be B.P., the lead-content being .002 (two per million). The price asked was 3s. per lb., less 5 per cent., but no bids were made.

TERPINEOL is dearer at 7s. per lb.

THEOBROMINE.—The absence of export demand has led to slightly lower prices in several directions, the pure alkaloid offering at 50s. and sodium salicylate at 40s. per lb.

TURPENTINE.—Sales are confined to small lots of American at 120s. to licence-holders. With an allocation of Government freight supplies could probably be placed on the market at less money. Importers are confronted with numerous difficulties—first in obtaining American export licences; also other permits on this side, with regard to freight, purchase, and sales.

VANILLIN.—The present price of clove oil would justify the makers in raising their price very considerably, and 70s. is regarded by them as comparatively low.

WILD-CHERRY BARK has advanced to 2s. per lb. on the spot.

WINTERGREEN OIL.—Genuine is quoted at 21s. 6d. per lb.

London Drug-auctions.

Commercial Sale Rooms,
Mincing Lane, E.C., May 9.

At the monthly auctions a small proportion only of the goods offered changed hands. Annatto-seed is now plentiful but neglected. Cape aloes was in easier tendency, but the selection offered was poor, and for Curaçao aloes in cases, which are very scarce, higher rates were paid. Sumatra benzoin was in good demand at full prices, and for Siam a further substantial advance was paid. Buchu maintains previous prices. Cardamoms are quite neglected. Eucalyptus oil was plentifully offered, and the undertone is easy. Siam gamboge sells slowly at previous rates, and for honey an irregular decline of from 10s. to 15s. per cwt. was paid; there is good business passing privately, and it is thought the decline may be only temporary. Ipecacuanha is steady but quiet, with fair stocks on hand. Rhubarb is about steady, with a hand-to-mouth business. Sarsaparilla of the various descriptions again appreciated in value, but supplies of Lima are somewhat more plentiful. Tinnevely senna meets only a retail demand at practically unchanged prices, and for beeswax the market remains steady.

	Offered	Sold		Offered	Sold
Aconit-root ...	14	0	Annatto-seed ...	161	0
Aloes—			Balsam peru ...	5	0
Cape ...	75	0	Benzoin—		
Curaçao ...	46	43	Palembang ...	50	0
Zanzibar, etc. ...	27	0	Sumatra ...	155	125
Althaea-root ...	27	0	Siam ...	9	9
Ambergris ... (tins)	2	0	Boldo-leaves ...	5	0
Ammoniacum ...	6	0	Buchu ...	4	1
Anise (Sp.) ...	73	0	Burgundy pitch ...	3	0
Anise, star ...	103	0	Calabar-beans ...	4	*4

	Offered	Sold		Offered	Sold
Camphor, ref. ...	45	0	Manna ...	29	0
Cannab. ind. ...	35	0	Matico ...	30	0
Cantharides ...	11	0	Mauve-flowers ...	2	0
Carageen moss ...	6	0	Menthol ...	30	0
Cardamoms ...	82	0	Mint, ground ...	2	2
Cascara sagrada ...	250	0	Mint oil (Jap.) ...	30	0
Cascarilla ...	5	0	Olibanum ...	25	0
Cassia oil ...	40	0	Orange-peel ...	15	0
Chamomiles ...	18	0	Pitch, Burgundy ...	3	0
Chiretta ...	25	0	Quillaia, whole ...	29	0
Cinchona ...	14	0	do. cut ...	8	0
Coca-leaves ...	95	0	Rhapontica ...	40	0
Cochineal (Peru) ...	43	39	Rhatany ...	46	0
Colocynth ...	14	0	Rhubarb (Ch.) ...	37	8
Condurango ...	5	0	Rosemary-leaves ...	60	0
Conpaiba ...	15	0	Sagapenum ...	1	0
Coriander-seed ...	260	0	Sage-leaves ...	3	0
Cubebs ...	79	0	Sandalwood oil ...	16	0
Cumin-seed ...	5	0	Sandarac ...	5	0
Digitalis-leaves ...	32	0	Sarsaparilla—		
Dill-seed ...	97	21	Grey Jam. ...	15	8
Dragon's-blood ...	22	0	Honduras ...	10	0
Elemi ...	5	0	Lima-Jamaica ...	38	4
Eucalyptus oil ...	214	0	Native Jam. ...	10	10
Fennel-seed ...	100	0	Savin-leaves ...	10	0
Fenugreek-seed ...	100	0	Scopolia ...	4	0
Galangal ...	5	0	Senna and pods—		
Galls ...	11	0	Alex. ...	11	0
Gamboge ...	17	*1	Tinnevely ...	357	59
Gentian ...	55	0	Spike-lavender flow. ...	40	0
Grindelia rob. ...	7	0	Squill ...	155	0
Guaiaecum ...	2	0	Stavesacre ...	7	0
Gum acacia ...	362	10	Stramonium ...	1	0
Henbane ...	21	0	Strophanthus ...	30	0
Honey—			Tartaric acid ...	40	0
Australian ...	694	473	Thyme-leaves ...	36	0
Argentine ...	49	20	Tonka-beans ...	6	0
Californian ...	193	78	Tragacanth ...	149	15
Chilian ...	594	0	Turmeric ...	187	0
Cuban ...	594	99	Turpentine ...	1	0
Honolulu ...	58	0	Valerian-root ...	113	0
Jamaica ...	70	26	Wax (bees)—		
Porto Rico ...	33	0	Abyssinian ...	100	0
Spanish ...	61	0	Chilian ...	15	0
Insect-flowers ...	10	0	East Indian ...	85	0
Ipecacuanha—			Jamaica ...	3	2
Matto Grosso ...	30	2	Morocco ...	21	0
Jalap ...	10	10	Mozambique ...	176	100
Kamala ...	1	0	West Indian ...	28	27
Kava-kava ...	11	0	Wax, ceresin ...	6	6
Kola ...	272	3	Wine-lees ...	48	0
			Wormseed herb ...	5	0

*Sold privately.

ACONITE.—Several lots of fair Japanese were limited at from 60s. to 62s. per cwt.

ALOE.—Curaçao was the only description which sold, and owing to scarcity higher prices were paid, 46 boxes selling at from 118s. to 127s. for mostly good fair liver, part slightly cindery. Fair, part capey, sold at 93s., and black capey at 90s. Cape aloes was quite neglected and in easy tendency. A bid of 42s. is to be submitted for five cases of dullish seconds, and a further lot of 25 cases was bought in.

AMMONIACUM.—For five cases of good small yellow tear, part blocky, 4s. per lb. was wanted.

ANNATTO-SEED.—A fair quantity was on offer at from 8d. to 9d. per lb., as to quality.

BENZOLIN.—Further welcome new supplies of Sumatra were offered, comprising 125 cases very fair almondly seconds with part barky centres, which sold readily, with competition at 11l. per cwt.; dust went at 110s. Thirty cases of good almondly well-packed seconds were retired at 16l., and a bag of dust sold at 6l. Six cases of new crop Siam extra clean and bright pea and bean size of fine flavour sold at 38l. per cwt., and a further three cases of small to medium loose almonds of good flavour sold at 41l. per cwt. For twenty cases of good almondly Palembang seconds a bid of 7l. was refused, the limit being 8l.

BUCHU.—Firm and scarce; a single bale of good green rounds, slightly stalky, sold at 6s., and for bronzy and slightly stalky ovals 5s. was wanted.

CARDAMOMS were extremely slow of sale, good bold pale Ceylon Mysore being obtainable at 5s. per lb.

CASCARA SAGRADA.—A lot of 250 bags fair two-year-old was held at 150s., at which business has been done privately. The landings in London during April were nil, and the deliveries were 8 tons, leaving a stock of 43 tons on April 30, 1918, against 35 tons in 1917.

COCHINEAL.—Of 43 bags Peruvian, 39 sold at from 2s. to 2s. 4d. per lb., subject for silver greys.

COLOCYNTH.—Ten packages of fair pale apple, part broken, were limited at 1s., and four bales of good pale pulped were retired at 2s. 3d.

COPAIBA.—Five barrels of Maranham were limited at 5s. per lb. for part cloudy and part clear.

ELEMI is very scarce. Five cases of dull specky thirds were retired at 150s., a bid of 120s. being refused.

GALANGAL.—Two bales of fair sold at 80s. per cwt.

GAMBOGE is quiet, with small sales privately. In auction three cases of fair Siam slightly blocky pipe of orange fracture were limited at 33l.

GUAIACUM.—A single cask of good glassy block was limited at 6s. 6d. per lb., at which sales have been made privately. For inferior drossy 4s. was wanted.

GUM ACACIA.—For fair Ghatti 80s. was wanted, and for 17 bags of good pale soft picked Kordofan the asking price was 5l. 15s. per cwt.

HONEY.—A total of 1,828 packages offered, of which rather less than half sold. In view of this large quantity buyers acted cautiously, but as brokers were anxious to do business an irregular decline of from 10s. to 15s. per cwt. was accepted, and buyers purchased more freely. The following prices were paid: *Jamaica*, 70 barrels offered and 26 sold, including good pale set and setting at 192s. 6d., dull set 180s., amber liquid 186s. *Argentine*, 49 packages offered and 25 sold at 193s. to 194s. for greyish set. *Porto Rico*, 33 barrels offered and bought in, the limit for dull set being 192s. 6d. to 195s. *Chilian*, 76 packages were offered and held at 195s. for fair amber liquid. *Australian*, 694 cases offered and 433 sold, at a decline of about 15s.; dull to palish set and setting 176s. to 179s., fair to good amber set and setting 175s. to 179s., dull amber liquid 176s. to 177s.; a further 519 cases were sold from the rostrum at 176s. (not catalogued). *Californian*, 193 cases offered and 78 sold; good white set 202s. 6d. (usual terms), and dull yellow 195s. nct. *Honolulu*, 58 cases offered and bought in at 190s. for dark set. *Cuban*, 594 packages offered and 105 sold, including good pale set 192s. to 195s., palish set and setting 182s. 6d. to 185s., canary set 180s. to 182s. 6d., brown and dark liquid amber 170s. to 175s. *Spanish*, 71 packages were offered and bought in at from 180s. to 192s. 6d.

IPECACUANHA was quiet but steady, a bale of good fair sound Matto Grosso selling at 11s. 3d., and for a bale of ordinary dull, part mouldy, 11s. was paid. The stock of Matto Grosso in the London warehouse on April 30 was 408 packages, the deliveries during April being 169 packages and the landings 62. On April 30 there was also in stock 75 packages of Cartagena and 80 of East Indian.

JALAP.—Eight bales Vera Cruz analysing 8.50 per cent. sold at 2s. 9d. per lb.

KOLA.—Three bags of fair dried Jamaica halves sold at 11d., being about steady; and 207 bags of slightly mouldy African quarters were limited at 11d.

MENTHOL.—A lot of 30 cases (in prize) was limited at 13s. 9d. for Suzuki and 14s. for Kobayashi.

MINT.—Two barrels of ground sold without reserve at 22s. per cwt.

MINT OIL.—A lot of 30 cases (in prize) was limited at 3s. 9d. per lb. for Suzuki.

OLIBANUM.—A lot of 25 cases fair, part blocky, siftings was limited at 50s. per cwt.

RHUBARB.—Quiet. Eight cases of medium to bold flat Canton, part pickings with mostly dull brickly fracture, sold at 2s. 5d. per lb.

SARSAPARILLA was dearer all round. Ten bales Native Jamaica sold at an advance of about 6d. on previous prices, from 4s. 2d. to 4s. 6d. being paid for mostly dull red and yellow mixed. Of genuine grey Jamaica, 19 bales offered, and eight sold at 4s. 9d. per lb. for fair, being an advance of 3d. on previous prices; and of Lima-Jamaica 33 bales offered, and four sold at 4s. 6d. for fair, being an advance of 3d. Ten scrons of Honduras had not arrived in time.

SENNA was quiet but steady; 22 bales Tinnevely leaf sold at 6l. for fair greenish, 4½d. to 4¾d. for middling greenish, 3½d. for second-class sea-damaged, and 2½d. for inferior. *Pods* sold at the previous price of 3¾d.

STROPHANTHUS.—A lot of 27 bags fair Kombe, slightly mouldy, was limited at 4s. 6d. per lb.

TURNERIC.—A lot of 98 bags fair Cochinchina split bulbs was limited at 55s., at which sales have been made privately.

VALERIAN.—A lot of 110 bags fair Indian were retired at 320s. per cwt.

WAX, BEES.—Quiet. Three packages of Jamaica sold at 11l. 10s. per cwt. for fair brown block, and for 27 packages of West Indian 9l. was paid; 100 packages of fair part dark Mozambique block sold at from 9l. to 9l. 2s. 6d. (one lot). A further 76 bags Mozambique offered, part consisting of good slightly wormy pipe, for which 9l. 17s. 6d. to 10l. was wanted.

WAX, CERESIN.—For six bales of Orange a bid of 80s. is to be submitted.

CHLOROFORM-SUPPLY IN NORWAY.—A Tronhjem chemical company announces its intention of manufacturing enough chloroform to supply the needs of the whole of Norway.



The Council Election.

SIR,—May we ask for a few lines to reply to Mr. Catto, Secretary of the West Ham Association, whose letter appeared in your last issue (*C. & D.*, May 4, p. 51)? He states that Messrs. Keall and Melhuish are claiming to be the official candidates for London County on a "split vote." This hardly conveys to your readers a correct or fair impression, there being one dissident only to our adoption by the London Executive. Further, of the six District Associations of London, four (Western, South-Western, North-Eastern, and South-Eastern) passed votes of support and confidence at their meetings. At the meeting of the North London Association, which we addressed with other candidates, no vote was taken, but our candidature is advocated in this month's notice to their members. East London is the only District Association which we have not yet had an opportunity of addressing. It will thus be seen that Mr. Catto, who has unwittingly confused the London Associations and those outside, is in error so far as his statements relate to ourselves and London County. In conclusion, although it is said that all is fair in war and politics, we venture to deprecate this "eleventh-hour" attempt to unfairly influence the electors, as well as to undermine that spirit of good-fellowship so necessary to unity in pharmacy.

Yours faithfully,

JOHN KEALL.

ANDREW R. MELHUIH.

London.

SIR,—In reply to a letter from Mr. A. Catto in the *C. & D.*, May 4, p. 51, I desire to call attention to a meeting of the South-West London Chemists' Association, reported in the *C. & D.*, April 6, p. 45, at which a vote promising hearty support to both Messrs. Keall and Melhuish was carried *nem. con.*—Yours faithfully,

W. J. BOYES, Hon. Secretary.

South-West London Chemists' Association.

SIR,—As Secretary of the North-East London Association I protest on behalf of the members against Mr. Catto's statement (*C. & D.*, May 4, p. 51) that only the Western had adopted Messrs. Keall and Melhuish as the official London candidates. We had a meeting on March 21, when a resolution was passed pledging the members to support these two gentlemen, and the resolution was placed in the minute-book. In conclusion, I feel sure I am expressing the sentiments of the best workers for real progress when I suggest that to state a thought as a fact, which practice is becoming more and more common with a certain section of the party, does more harm in the long run than the efforts of the strongest opponent.—Yours sincerely,

W. A. SCOTT, Hon. Secretary.

North-East London Pharmaceutical Association.

Reconstruction in Pharmacy.

SIR,—I have enjoyed reading your articles on "Reconstruction," and think they deserve every attention. At the same time, there are a few points which I think it would be advisable to deal with. The new curriculum instituted by the Apothecaries' Society, and the fact that in the near future they will no doubt bring pressure to bear on the Government to enable them to keep open shop, constitutes a real menace to pharmacy. What is the Pharmaceutical Society doing to meet this menace? Very little, as far as one can see. Why is this? Because, as has been well emphasised by "Xrayser II," the members of the Council are largely elderly, out-of-date men with pre-war ideas, who are hopelessly out of touch with everyday pharmacy. The bulk of them are Major diplomates, although the ratio of chemists and druggists to pharmaceutical chemists on the Register is about seven to one. [There are ten Ph.C.s on the Council and eleven chemists and druggists.—EDITOR.] Why should this be so? Anyone who cares to study the history of the Pharmaceutical Society can see for himself that it is one long record of the minority trying to tyrannise over the majority, and succeeding. For example, the Major diplomates of the Society have all along tried to arrogate a superior air to themselves and cast doubts and sneers upon the qualified chemist and druggist, striving to represent to the public that he holds an inferior qualification. This attitude was well illustrated at a recent Council meeting, where a member was reported as saying that he thought "Qualifying examination" a stupid description for the new title for the Minor. The very title "Minor" was intended to convey the impression of inferiority; that is why these "old men of the sea" are so loth to alter it. Again, as "Xrayser II." has pointed out, the Minor man

was compelled until recently to reconcile himself to the letters "A.P.S.," the designation "M.P.S." being considered too good for such as he. I was surprised to see the same idea of snobbery cropping up in the Progressive Pharmacy Club. The Club suggests to the Army authorities that qualified chemists and druggists shall be "sergeant dispensers," while the posts of "lieutenants," "captains," etc., shall be reserved for Major diplomates. Truly this fetish dies hard. Can one imagine the medical men of this country coming to the Army authorities and suggesting that men who have merely passed the Qualifying examinations in medicine and surgery shall be appointed as "sergeant doctors," while the posts of "lieutenants," "captains," etc., should be reserved for M.D.'s? It would be just as sensible and reasonable. The truth about the matter is that the Major examination is obsolete and valueless. It is no use for the drug-trade, and is not nearly good enough for analytical work, where the A.I.C. diploma easily holds the field. It is an anachronism, and the time is ripe for sweeping it away. My experience of Major diplomates leaves me with a very poor opinion of either their scientific or business abilities. I suggest the following reforms:—

1. The abolition of the Major examination.
 2. The raising of the Preliminary to Matriculation standard, or such standard as the new Education Act may lay down.
 3. The division of the Minor into two parts, and the title altered to "Qualifying" examination. A compulsory curriculum also to be instituted.
 4. A rigid insistence on apprenticeship to a registered chemist for three years. Experience in dispensing in doctors' surgeries, etc., not to be accepted.
- The chemists and druggists of Great Britain have the power in their own hands to remodel the Society and make it really representative of the trade. Will they do it, or will they remain content to be ruled over and sneered at by a small coterie of Major diplomates? At the forthcoming elections to the Council let them commence the work.

Yours truly,

RECONSTRUCTION. (41/15.)

Cream-of-Tartar Standard.

SIR,—I cannot agree with Messrs. Lawes that my letter (*C. & D.*, April 27, p. 51) demonstrates that Continental brands of cream of tartar cannot be relied upon. What I think it does demonstrate is—and that is the point I wish to emphasise—that the analyses of cream of tartar cannot be relied upon. Some of the analysts must be wrong. It seems to be a case of doctors differ and patients die: analysts differ and the unfortunate merchant is fined. In the case I quoted in my former letter I think I cannot do better than give you an extract from the London analysts' letter, in which they write:

"In reply to your letter of the 19th inst., we regret to hear there should be so wide a difference in the amounts of lead shown in the sample of cream of tartar you handed to us on the 7th ultimo. We are, however, quite certain that the amount of lead present does not exceed 0.0020 per cent. The other chemists must have included copper and lead in their returns, and there is also colouring-matter in this sample, which obscures the lead reaction by the method probably followed by the other chemists. As you will quite understand, we only want to get at the truth without prejudice, and it is a pity we cannot justify our analyses before your customer's case comes into court, as if so we are quite sure we could put the matter right, and we only regret that tests that we are sure must be irregular should lead you into so much trouble."

In face of this, why cannot the analytical chemists discuss the matter at some of their meetings and devise some scheme that would enable them all to get about the same results in analysing parts of the same sample? It does not seem an impossible thing to do. It would be interesting if Messrs. Lawes would send a sample of their tartar to three or four analysts and see if they get a "unanimous" verdict on their manufacture. I doubt it.—Very truly yours,

J. HORNER HASLETT
(J. & J. Haslett, Ltd.).

Apothecaries' Assistants.

SIR,—The letters of "Justice" and Mr. F. E. Trayner in the *C. & D.*, April 27, p. 52, both give the impression that a Court of law would require the Pharmaceutical Society to frame by-laws for the registration of apothecaries' assistants under Clause 4 (b) of the Pharmacy Act, 1908. If this is so, why does not the Society of Apothecaries or the Association of Certificated Dispensers take the necessary steps to compel the Pharmaceutical Society to frame by-laws? If it is not so, the sooner the matter is dropped the better.—Yours faithfully,

ALPHA. (65/49.)

Dispensing Difficulties and Notes.

Phenol in Pills.

SIR,—Will you kindly tell me the best method of making the following pills?—

Bismuth. carb.	...	...	gr. ij.
Phenol	...	...	gr. j.
Ext. opii	...	...	gr. 4

Ft. pil. j. Mitte xxiv.

Should pulv. glycyrrhizæ be used, or is there any incompatibility between glycyrrhizin and phenol?

Yours faithfully,

NATAL. (68/8.)

[Place the phenol along with 10 gr. of white beeswax in a squat cylindrical pill-tube, well corked, and heat on a water-bath till melted, then run cold water from the tap on the end of the tube till the contents are quite set; scrape out and mix with the bismuth carbonate and extract of opium, previously triturated together, and mass with about 8 or 10 gr. of anhydrous wool-fat. The quantity of wool-fat required varies according to the relation of bulk to weight of the bismuth carbonate; when the exact quantity is ascertained it is convenient to melt it in the tube with the beeswax and phenol. The little incompatibility between phenol and glycyrrhizin may be discounted so far as the use of powdered liquorice-root in pills such as your prescription orders is concerned, and 4 gr. or so per pill may be employed to supply "bones" to a mass. We ourselves prefer powdered marshmallow-root for the purpose.]

Nux Vomica Mixtures.

SIR,—I frequently dispense prescriptions containing nux vomica with an alkali, such as the following:

I.		II.	
Sodii bicarb.	... 3ij.	Sodii bicarb.	... 3ij.
Tinct. nuc. vom.	... 3ij.	Sp. ammon. arom.	3iij.
Sp. chlorof.	... 3i.	Tinct. nuc. vom.	... 3iij.
Inf. gent. co. ad	... 3viij.	Chlorodyni	... 3j.
		Aq. menth. pip. ad	3vj.

Talking to a neighbouring chemist the other day about these mixtures, he said that tinct. nuc. vom. should not be prescribed or dispensed with sodii bicarb., as the latter would throw down the strychnine of the nux vomica. Will you kindly favour me with your views?

Yours truly,

Nux. (67/1.)

[There is no danger of precipitation of strychnine in either of the mixtures. The combination of tincture of nux vomica with an alkali may be theoretically regarded as incompatible. It is popular, however, with prescribers, who apparently find it afford satisfactory results. It is only when the concentration exceeds the limit of solubility of the alkaloid that precipitation would occur. Strychnine is soluble in water to the extent of about 1 in 7,000, and the presence of alcohol, even in small proportion, materially increases the solvent power of the liquid. In the first mixture there is more than enough infusion to dissolve half a grain of strychnine, while there is only an eighth of a grain prescribed. In the second mixture the quantity of liquid is less and the amount of strychnine more, but there is still a margin of safety, which is increased by the additional quantity of alcohol which the mixture contains. The aromatic spirit of ammonia, while adding to the alkalinity, contributes to the spirit-content. This mixture, moreover, on account of the other constituents, would be dispensed with a shake label. You will find a record of experiments with these mixtures by Mr. Geo. Roe in the *C. & D.*, II., 1904, p. 34, and the matter was also dealt with by Messrs. Finemore and Williamson at the Chester Conference (*C. & D.*, July 25, 1914, p. 167).]

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

L. L. (72/11).—It is only the sale of tablets made from British saccharin that is restricted to chemists and drug-stores.

Law (58/37).—Is legacy duty payable on a legacy of 50l. when the value of the estate is under 500l.? [In the case stated estate duty only is payable.]

W. L. (84/25).—A private house has been converted into a shop with dwelling accommodation above. The annual value of the premises is 25l. Is inhabited-house duty payable at the rate of 2d. or 3d. in the pound? [The duty payable is at the rate of 2d. in the pound.]

Sandow (67/50), who has lived in one of the Eastern portions of the British Empire for nineteen years, asks whether, as he is of military age, he would be conscripted if he came to England for a holiday. [The Military Service Acts do not apply to "men ordinarily resident in His Majesty's Dominions abroad."]

G. W. K. (66/32).—THE RATEABLE VALUE of a house is fixed by the local authority. It may be more than the amount paid for rent, but generally bears a relation to the rent actually paid. There are statutory deductions from the gross value of a house—varying from 16½ to 25 per cent.—by which the rateable value is obtained.

Scheme (61/72).—INCOME-TAX ALLOWANCE.—The allowance which is to be made for dependants is 25l. for any dependent relative (incapacitated by old age or infirmity) whom the income-tax payer maintains. The claims will be for the ensuing year, and will be made on the income-tax return papers which are distributed later on in the year.

P. J. (72/14).—(1) Tablets made from British saccharin are only supplied to chemists and drug-stores, so as to dissociate the public from the idea that saccharin is a food. The tablets are supplied to you on this condition, so that you would not be justified in handing on your supply to a grocer. (2) There is no fixed price for tablets made from uncontrolled saccharin.

Celt (66/37).—EXCESS-PROFITS DUTY is to be levied on the profits arising from the sale of trading stock otherwise than in the ordinary course of trade at any time after April 22. This includes profits on the transfer of a business, but the tax, 80 per cent., is only levied on the amount beyond 200l. by which the profits on the trading stock exceed the amount that would have been obtained before the war.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

S. D. (40/72).—You do not say what preservative you use for the iron tonic mixture. Is it aq. chloroformi?

A. P. W. (41/12).—WHITE OILS WITHOUT EGGS:

I.		II.	
Sapo. mollis	... 3xvj.	Liq. ammon. fort.	... 3iij.
Pulv. ammon. chlor.	3iv.	Ol. terebinth.	... 3iij.
Aqua	... 3vj.	Lin. saponis	... 3iij.
Ol. terebinth.	... 3j.	Ac. acetic. fort.	... 3ij. 3ij.
		Aquam ad	... 3xx.

Add the ingredients in above order, shaking well after each addition.

Minim (80/6).—VIOLET-POWDER.—Now that starch may not be employed without a licence in the manufacture of any article not employed as food, it will be necessary to employ a mineral basis for this nursery powder. The following is a suitable war emergency formula:

Infusorial earth	...	...	lb. vj.
Powdered orris	...	...	lb. j.
Bergamot oil	...	...	3ij.
Neroli oil	...	...	mx.

Mix and sift.

J. W. R. (72/23).—MANUFACTURE OF SACCHARIN.—See *C. & D.*, April 14, 1917, p. 52, and March 2, 1918, p. 52.

R. S. G. (68/11).—The method of using acriflavin for bee-disease was given in the *C. & D.*, February 2, p. 46.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," May 15, 1868.

Visit to an Opium Den.

By the flickering light of the fire burning in the grate I perceive the individual addressed as Jack. It is a Chinese who keeps this wretched hole where one can get intoxicated for a few coppers. The room we enter is so low that we are unable to stand upright. Lying pell-mell on a mattress placed on the ground are Chinamen, Lascars, and a few English blackguards who have imbibed a taste for opium. Some stretched at full length abandon themselves to the fumes of intoxication in its different stages, while others are only just commencing to light their pipes at a kind of night lamp which is placed by the side of each smoker.

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58 Degrees.

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Relapses are unknown.

March 1918.

"Gentlemen,—I have not found anything to equal Stannoxyl in the treatment of Acne Vulgaris. In the cases I have used it, the results have been excellent. I have tried it in a few cases of Skin infection with encouraging results.

Yours faithfully,

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SATURDAY, MAY 11, 1918

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BOURNEMOUTH.—Lady Assistant wanted for high-class Pharmacy; outdoors. Please apply, giving fullest particulars, to E. J. Savage, 13 Queen's Road, Bournemouth.

BRIGHTON (outdoors).—Assistant required (at once); Dispensing and Retail; easy hours. Apply with full particulars, and photo if possible, J. Colby & Co., 101 Western Road, Brighton.

GLOUCESTERSHIRE.—Assistant Dispenser wanted (at once); Hall certificate; no Counter work; willing to attend to various clerical duties when not required at the Dispensing Counter; no previous experience needed; in reply state salary required. Apply 129/39, Office of this Paper.

HAMPSHIRE (at once).—Wanted, for a month or six weeks, lady or gentleman, any age, with good references, for a high-class Dispensing business in a beautiful part of Hampshire, near military camp; ideal summer spot; good money; cheap living; outdoors. Write (saying if disengaged), Keeble, Chemist, Liss, near Petersfield.

HARROGATE.—Wanted, unqualified Assistant (male or female) in a high-class Dispensing business; indoors. Apply, stating age, height, references, and salary required to A. B. Payton, Crown Pharmacy, Harrogate.

KENT.—Wanted, lady Assistant (outdoors) with Counter experience; short hours, Wednesday half-day, no Sunday duty. Apply, with full particulars as to experience and salary required, to J. W. Hoyle, Southborough, Tunbridge Wells.

LANCASHIRE.—Good Salesman and Window-dresser; able to take charge. State salary, etc., 132/11, Office of this Paper.

LEICESTER.—Woolley & Co., Dispensing Chemists, require gentleman or lady Assistant for Dispensing and good-class business. Please state salary, experience, etc., and when at liberty.

LIVERPOOL (HEALTHY SUBURB, CHESHIRE SIDE).—Qualified lady or ineligible (end of May); good-class Dispensing; easy hours. State salary, etc., "V. S.", c/o Ayrtton, Saunders & Co., Liverpool.

LONDON.—Qualified Assistant wanted, lady or gentleman, for small old-established Light Retail business; outdoors; permanency; no Sunday duty, half-holiday weekly. Please apply with full particulars, and stating salary required, to 129/57, Office of this Paper.

LONDON.—Young lady Assistant required (immediately); experience in Dispensing essential. State age, salary required, and when at liberty, "U. R." (130/115), Office of this Paper.

LONDON, N.W.—Qualified Assistant wanted for evenings; man or woman; furnished house; suit Hospital Dispenser. Apply 176/10, Office of this Paper.

LONDON, S.W.—Wanted, smart lady Assistant for Patents, Sundries, and Perfumery, and some knowledge of ordinary Drugs; short hours. Full particulars of experience, salary required, etc., 133/32, Office of this Paper.

MANCHESTER.—Qualified Manager for Branch wanted at once (ineligible or discharged man); must be good Window-dresser and Salesman; exceptional salary to right man. Full particulars first letter, Shand & Orr, 301 Regent Road, Salford.

MANCHESTER.—Messrs. Blain & Hankinson, Pharmaceutical Chemists, 69 Market Street, Manchester (formerly Woolley's), require a qualified Dispenser and an unqualified General Assistant; Army discharged men preferred; short hours, no Sunday or night duty.

MANCHESTER.—Unqualified Assistant required for Dispensing and Light Retail business. Give full particulars, experience, age, etc., and state salary required, Bushby, Pharmacist, Levenshulme, Manchester.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SURREY (not an air-raid district).—Young lady Assistant required; Dispensing and Light Retail; high-class business; permanency; apartments found. "Surrey" (130/112), Office of this Paper.

A SMART Counter hand and Window-dresser (lady) wanted at once; Photographic and Dispensing experience an advantage, but not essential; whole or part time. Apply personally to Durbin's, 106 High Street, Wandsworth, S.W.

ADVERTISER requires young qualified man with limited experience, who is without capital, and is willing to work himself up to position of Manager of high-class Chemist's business in well-known health resort; salary moderate to begin, gradually rising until Manager; suit man about to be married. Apply 132/18, Office of this Paper.

ASSISTANT (qualified) required shortly for Branch; capable of taking charge; knowledge of Photography essential. Apply, giving fullest particulars, salary, etc., first letter, to Cruse & Co., Ltd., 63 Palmerston Road, Southsea.

ASSISTANT (either sex); Dispensing and Counter; near London; short hours, no Sunday duty; progressive salary. Apply 130/23, Office of this Paper.

ASSISTANT; lady; must be a competent Dispenser. Apply, giving full particulars of experience, salary required, and when disengaged, to Mr. Reid, 2 Queen Street, Exeter.

ASSISTANT wanted; ineligible man or lady. Apply, stating full particulars, to Gregory & Wrenn, Chemists, Taunton.

CAPABLE Assistant required for good-class business. Full particulars to Nath. Smith & Co., 373 High Street, Cheltenham.

DISPENSER.—Hunt & Co. have a vacancy in their old-established business for an experienced, energetic Dispenser; free from military duty. Apply, with full particulars, to Hunt & Co., Chemists, Winchester.

DISPENSER wanted; West Midlands; ineligible man or lady; used to Retail business; must be good writer and reliable; outdoors; state salary required and references. Apply 122/29, Office of this Paper.

ELDERLY gentleman; qualified; easy hours; light duties. Apply 131/32, Office of this Paper.

IN THE CITY.—Assistant wanted during the next few weeks; outdoors; short hours; good salary to competent man; ineligible. Write 133/23, Office of this Paper.

JUNIOR Assistant required in good-class suburban business; young lady or discharged soldier; moderate hours. Apply, with full particulars as to salary required and previous experience, to Ellis, Chemist, 10 Albert Road, Ilford.

JUNIOR or Improver required (outdoors) for good-class Retail and Dispensing business; lady or gentleman. S. W. Dawson, 56 Knight's Hill, West Norwood, S.E. 27.

LADY Assistant for Dispensing, Counter, and Stock, with some Retail experience. Apply to Manrieve & Co., 42 Oxford Street, W.

LADY Dispenser (qualified) wanted as locum for four weeks commencing 24th June. State wages required and reference to Dr. Peers, Burton House, Great Yarmouth.

LADY Dispenser required; whole or part time; opportunity to gain Counter experience. Full particulars to Snowden Kirk, 6 Chrisp Street, Poplar, E. 14.

LADY Dispenser required; fully experienced, and capable of assisting in first-class Pharmacy; comfortable hours; outdoors. Full particulars to G. Peck & Son, Pharmaceutical Chemists, Cambridge.

LADY Assistant wanted; Hall qualification, or experienced in Dispensing; three employed; hours 9 to 7, Saturdays 8 o'clock, Thursdays 1 o'clock, no Sunday duty; outdoors. Shields & Warren, St. Albans.

LADY Assistant; qualified, also one unqualified; Counter and Dispensing; good-class business; South Coast town (not Southsea). Apply, with particulars and references, to "Aspirin," 92 Palmerston Road, Southsea.

LADY Assistant (qualified preferred), with good experience of a Chemist's business; must be a reliable Dispenser; outdoors. Full particulars to Hampton, Northgate Street, Gloucester.

LADY Dispenser; Minor or Hall qualification, with Dispensing experience. C. A. Maries, Pharmacist, Waterloo, Liverpool.

LADY Assistant wanted; Dispenser; good-class business; South Coast. Apply, with particulars and references, to W. Aston, Pharmaceutical Chemist, 27 Montague Street, Worthing.

LOCUM wanted for two or three weeks in June; lady or gentleman; qualified. State experience, with references and salary required (Newcastle-on-Tyne district), 133/27, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

OUTDOORS Assistant (lady or gentleman) for Dispensing; must be really capable; no N.H.I. work; comfortable hours. Apply, with full particulars, to A. Lloyd Davies, Chemist, Woking.

QUALIFIED Assistant wanted; Sheffield. Apply 72/45, Office of this Paper.

QUALIFIED Assistant wanted (lady or gentleman), accustomed to good-class Retail and Dispensing; no N.H.I. or Photographic work; no Sunday duty; easy hours; outdoors. Apply, with full particulars of age, experience and salary required, and when disengaged, to E. A. L. Kittle, Pharmacist, Horsham, Sussex.

QUALIFIED Manager, over military age or rejected, required for first-class business in the provinces; splendid opportunity for a capable and energetic man. "H. L." (130/116), Office of this Paper.

QUALIFIED Manager (outdoors); London suburbs; Light Retail and Dispensing; good-class business; good salary to reliable man. References, etc., to "Chemist" (130/32), Office of this Paper.

QUALIFIED Manager (ineligible), chiefly for N.H.I. Dispensing and Retail. Give full particulars, stating salary (indoors), Eato, 57 Forest Lane, Stratford.

QUALIFIED Manager wanted for Branch; ineligible, or fully qualified lady. Apply, with full particulars, age, experience, salary required, etc., photo if possible, to W. T. Hicks & Co., 28 Duke Street, Cardiff.

QUALIFIED young man, single and rejected or discharged, required immediately; permanency, with good prospects of advancement. Please state age, salary required, and when at liberty, "H. L." (130/110), Office of this Paper.

QUALIFIED Manager (immediately); best-class Retail. State full particulars, "W. G." c/o Roxley, P.C., St. Giles, Oxford.

QUALIFIED Assistant, lady or gentleman, to manage small Branch. Apply, stating age, experience, and salary required (outdoors), to J. Cooper, 107 London Street, Reading.

QUALIFIED Manager wanted for high-class business; must be good Counterman and Dispenser; progressive salary to suitable applicant. Reply to Bennison & Co., 133 King Road, Chelsea, S.W. 5.

REQUIRED, unqualified Assistant; whole or part time; discharged, C3, or over military age; good salary offered. S. Matz, 341 Cheetham Hill Road, Manchester.

REQUIRED, lady Dispenser; Minor qualifications; hours of work approximately 8.45 to 6 o'clock, 1 o'clock Saturdays, no Sunday duty. Apply, stating full particulars of past experience and salary required, to Manager, Army and Navy Stores, 105 Victoria Street, S.W. 1.

SURGICAL INSTRUMENT BUSINESS.—Assistant for Shop Counter; state age, other duties accustomed to, and wages expected. Reply "Surgical," Lee & Nightingale, Liverpool.

TRUSTWORTHY and reliable, permanent or temporary.—Assistant required as soon as possible; must be well recommended. Apply, stating usual particulars and when at liberty, Beale & Son, Chemists, 3 High Street, South Norwood, S.E.

UNQUALIFIED Assistant wanted (male); Counter work and N.H.I. Dispensing; hours 9 to 8, Saturdays 9 p.m. Also an Evening Assistant. J. Brooks, Pharmacist, 8 High Street North, East Ham.

UNQUALIFIED Assistant Dispenser, lady, or gent. (ineligible), required; good-class Dispensing. State full particulars, age, and salary to 124/33, Office of this Paper.

WANTED, lady Assistant (outdoors). "Workman," 9 Church Lane, Leytonstone.

WANTED, lady Assistant for good-class country business; unqualified; about 20 years; outdoors; short hours; no Insurance Dispensing. Apply, with full particulars, to W. H. Jones, Pharmaceutical Chemist, Aberdare.

WANTED, lady Dispensers, holding Minor Pharmaceutical certificate, for Military Hospitals in Salonika; able to serve for one year or the duration of war. Apply Secretary, JOINT WOMEN'S V.A.D. COMMITTEE, DEVONSHIRE HOUSE, PICCADILLY, W. 1.

WANTED (immediately), a qualified man (over military age) to take charge of country Branch, to which is attached a progressive Dental Practice (unregistered); the position offers unique opportunities to the man with the necessary experience; highest references essential. Apply in first instance, with full details of experience, to 120/4, Office of this Paper.

WANTED, Dispenser and Bookkeeper; one accustomed to Medical practice preferred. Apply, stating salary required, to Drs. Wilson and Page, Penzance.

WANTED (immediately), a young woman for Drug department, to assist at Counter and some Dispensing. Write, stating experience and salary required, to Leverett & Frye, Ltd., North Finchley, N. 12.

WANTED (May 20th), part-time lady Dispenser for the Southampton Friendly Societies Medical Association; hours 10-12 and 6-8, Sundays off, and Wednesdays after 12. State age, experience, and salary required (outdoors), with copy of references, Secretary, 103 Clifford Crescent, Southampton.

WANTED, an Assistant for a good mixed country business. Full particulars as to age, salary (outdoors), past experience, references, etc., to Joseph Blower, Knighton, Radnorshire.

WANTED (at once), a reliable Assistant in good-class Light Retail and Dispensing business; easy hours, no Sunday duty (ineligible or discharged). Please state age, experience, references, and salary (outdoors), to G. A. Johnson, Chemist, Stamford.

£6 PER WEEK COMMISSION (unique prospects).—Manager (qualified) for small West-End Retail Pharmacy in central position near Regent Street; half-day Saturday and no Sunday duty; must be absolutely reliable, capable and trustworthy, active, attentive, and industrious; best credentials only acceptable, which must bear the strictest investigation; send photo if possible, and particulars of the last three situations. Apply "Robson" (133/25), Office of this Paper.

WHOLESALE.

CAPABLE man to take entire charge of Sundries side of large Wholesale house; must have had previous experience of buying. State full particulars and salary required, 75/28, Office of this Paper.

CHEMICAL Foreman wanted; must have first-class experience; Government work; permanency; good prospects; £4 per week. Send full particulars to Box 552, Smiths' Agency, Ltd., 100 Fleet Street, E.C. 4.

CHEMISTS (MANUFACTURING).—Good opening occurs, with prospects of permanency, for man used to Stem Laboratory; preference given to one used to keeping records and able to act as Sub-Foreman. Apply by letter, "S. A. & S." (72/60), Office of this Paper.

CHIEF Bookkeeper for offices of Wholesale Druggists, located in northern county (Assistants now mainly female); must be thoroughly experienced; no application considered without copy of references and salary expected. Apply 76/231, Office of this Paper.

COMPRESSED Tablet Machinist wanted. State experience to W. B. Cartwright, Ltd., Rawdon, near Leeds.

HOUGH, HOSEASON & CO., LTD., 2 Bridge Street, Manchester, invite applications from persons with good experience of the Drug trade, for the Offices and Wholesale Counters; also hands in various departments of their works. Apply, with full particulars, references, wage, or salary required, to the Managing Director.

INVOICE Clerk (male or female) wanted at once; must have had experience in the Wholesale; state wages and experience. Apply 131/35, Office of this Paper.

LABORATORY Assistant (ineligible for Military Service) to take charge of Manufacturing department; must be accustomed to working steam plant. Applicants should give full particulars of experience, stating age and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

LADY required to take charge of Chemist's Packed Goods department; must be capable of organisation and control of girls. State experience and salary required to 74/62, Office of this Paper.

PROVINCIAL Manufacturing Chemists (protected) wish to meet with gentleman; preferably over military age, with sound knowledge of Drug trade; able to control clerical, and if need be general staff. References and salary to 76/230, Office of this Paper.

REPRESENTATIVE for Lanes and Yorks wanted on commission; Antiseptics, etc.; must have good connection and excellent references. Apply 73/56, Office of this Paper.

SALESMAN wanted by well-known London house; Druggists' Sundries, Toilets, and Perfumery; all England south of Birmingham (London excepted). State experience and full particulars to 67/58, Office of this Paper.

UNDER-WAREHOUSEMAN required by London Wholesale Druggists; must have had previous experience, and be thoroughly conversant with the trade and capable of control of hands. Apply, stating age, experience, and salary required, to 75/3, Office of this Paper.

WAGES 50s., BONUS AND OVERTIME.

WANTED, a man (ineligible); used to warehouse routine; experience in packing and forwarding Toilet Preparations essential; works situate at Walham Green; hours 8-6, Saturdays 1 o'clock. Apply 74/45, Office of this Paper.

WANTED for Laboratory of a large food factory, a lady Assistant to undertake general analysis of commercial products, and willing to assist in research or other work required in Laboratory. Apply, giving previous experience, details of training, salary required, etc., "Cam" (70/71), Office of this Paper.

WANTED (at once) by London Wholesale firm, Drug Checker (male or female). Also Wet Counter hand. Apply 131/350, Office of this Paper.

WHOLESALE Druggists (Lancashire) require experienced hands for Grinding, Tablet, Tincture departments. Glass Packers, also Assistants for Drug Counters; references and wages required essential. Apply 76/23, Office of this Paper.

WORKS Analytical Chemist required; one conversant with Soap Manufacture, Nicotine Extraction, and Agricultural and Horticultural preparations. Write, stating full particulars and salary required, to 72/72, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

A LADY Dispenser, with good Dispensing experience (four years London reference), requires post immediately; Hall certificate, 1908. Please reply Miss R. H., 7 Hallswell Road, Golder's Green, N.W.

A QUALIFIED Chemist, (34), ineligible, free next week, offers services as Manager or in other capacity where accuracy, method, and detail count; skilled Dispenser. Please state best terms, with or without house, "Res" (132/36), Office of this Paper.

A DVERTISER desires engagement as Assistant or Branch Manager; unqualified; experienced and reliable; over military age. "N," 49 Streatham Place, S.W. 2.

A S Assistant by competent, trustworthy man over military age; active; varied experience; married; unregistered; excellent references; salary not less than 50s.; abstainer. 58b London Road, Portsmouth.

A SSISTANT, capable, and experienced in management, desires berth; excellent references; good all-round experience; first-class Salesman; married; exempt; unqualified; good remuneration. Apply 124/31, Office of this Paper.

ASSISTANT; 22; tall; 8 years' experience (Grade III.); unqualified; Dispensing, Photographic, quick Counter, Windows. State salary offered, etc. (disengaged one month), "Hexamine" (132/39), Office of this Paper.

ASSISTANT; 25; good experience and references; Grade 3; married, tall, smart; unqualified; in or near Worthing; disengaged. 49 Kingsland Road, Broadwater, Worthing.

BIRMINGHAM (NEAR).—Good Shorthand Typist and Dispenser, accustomed to office and shop routine, female, Minor student, seeks suitable post. Apply 130/17, Office of this Paper.

DISENGAGED; thoroughly competent Dispenser, Manager, or Assistant; West-End experience; ineligible; locum or permanency; London or suburbs. "B." 80 Rosebank Avenue, Sudbury Hill, near Harrow.

DISPENSER (lady), qualified, Hospital experience, desires locum; Doctor or Military Hospital; fortnight, early summer. Reply "Dispenser" (130/9), Office of this Paper.

COMPETENT (all-round) unqualified Assistant wishes whole or part time; London. Apply 128/37, Office of this Paper.

ELDERLY, qualified, active; permanency; 7 hours daily; N.H.I.; experienced Dispenser-Prescriber; disengaged; £3 3s. Apply 129/23, Office of this Paper.

GENTLEMAN, studying, wishes part-time; competent all-round experience; London. Apply 128/370, Office of this Paper.

GENTLEMAN (Hall); reading; Minor; part-time; Doctor or Chemist; near Clapham. "Cyrex" (130/19), Office of this Paper.

LADY Dispenser, certificated, experienced, desires post; Hospital or Doctor's; London district; locum anywhere if expenses paid. Reply "C.", 98 Sutton Court, Chiswick.

LADY Dispenser seeks post with Doctor; Apothecaries' Hall certificate. "J." (129/8), Office of this Paper.

LADY Dispenser (Hall) requires several engagements; short periods; experienced; good Dresser; reference. Please state hours, salary, etc., to 130/25, Office of this Paper.

LADY Dispenser, experienced, Hall certificate, desires post with Doctor, Chemist, or Hospital; Manchester or district preferred. Apply 130/27, Office of this Paper.

LADY Dispenser (Hall) requires post with Doctor or Institution; coast town preferred. Apply 129/31, Office of this Paper.

LADY Dispenser, 32 (Hall qualification, 1912), desires post with a Doctor for a few hours daily; Doctor's references. Address "N. W.," 8 Tennyson Mansions, Queen's Club Gardens, W. 14.

LADY Dispenser (Hall); post or locum; London; experienced; good testimonials, Institution, Doctor. Apply 132/25, Office of this Paper.

LADY Dispenser-Bookkeeper wants post; Doctor, Institution; experienced. "R. B.," 501 Hornsey Road, London.

LADY (young) requires situation with Chemist where could learn Dispensing and useful at Counter; live in; N.N.W. district preferred. Kingston, Carlton Temperance Hotel, Farnham.

LOCUM; experienced; town and country; disengaged 17th inst.; abstainer; reasonable terms. Particulars to "Fifty-ones" (129/35), Office of this Paper.

LOCUM or permanency; competent all branches; 41½ years; married; unregistered; highest references; N.H.I. qualification; conditional exemption, Grade 3; booking forward; from June 8th. "Statim," 155 Queen Street, Newton Heath, Manchester.

LOCUM TENENS; disengaged May 27; middle-aged; well recommended; unqualified. Please send particulars, "L. T.," 94 Llewellyn Street, Pontre, S. Wales.

M.P.S., elderly, active, seeks post as Manager (of light business) or otherwise; reliable, methodical, varied experience in every branch of profession; indoors; West of England preferred. G. F. Guest, Church Street, Hornchurch, Essex.

MANAGER; first-class business; experienced both sexes; active, reliable; abstainer; age 52; excellent references; qualified; permanency; salary not less than £250. Apply 129/5, Office of this Paper.

MANAGER; 48; exempt; experienced, energetic, reliable; increase branch or entertain easy succession terms; unregistered. Address "Energy" (132/34), Office of this Paper.

NURSE-DISPENSER seeks re-engagement in Doctor's Surgery or Institution Dispensary. Nurse, Morley, 8 Royle Street, Northwich.

OWING to shortage of labour and other causes, Chemists who have taken their own stocks cannot devote the time required to price them out. The advertiser, who has had many years' experience, will undertake to do it in a satisfactory manner and on reasonable terms. Apply 112/19, Office of this Paper.

PHARMACIST, Grade III., 30, as Manager; experienced; well recommended; used to business with large turnover. Apply 125/13, Office of this Paper.

PHARMACIST, experienced and reliable, desires engagements from 2 to 8; London only; good at Counter, Prescribing, and Dispensing; knowledge of Optics and Photography; abstainer; good references. Apply 131/40, Office of this Paper.

POSITION as Manager of first-class business; advertiser has a thorough knowledge of the business in all branches; over military age. Apply 133/6, Office of this Paper.

QUALIFIED Pharmacist requires good position; smart Salesman, Dispenser, and non-eligible; married; references. Please state salary, progressive, "Chemicus" (128/2), Office of this Paper.

QUALIFIED, over military age, experienced, active, requires Managership (permanency). State salary, etc., 130/14, Office of this Paper.

QUALIFIED; locum, permanency, or Branch Manager; exceptional experience; over military age; active. "Chemist," c/o Mr. Wood, 47 Ogilby Street, Woolwich, S.E.

QUALIFIED Dispenser as Locum; might entertain permanency; daughter of medical man; last post 3½ years; no postcards. Mrs. Westlake, 137 Park Road, Sittingbourne.

QUALIFIED, 42, good Counter and Dispensing, desires Senior position; City or West-End; interview preferred. "Semper-eadem," 121 Sutton Court, Chiswick, W. 4.

QUALIFIED; 29; Grade 3; good Prescriber and Counter hand; abstainer. Apply 131/37, Office of this Paper.

QUALIFIED; Manager or Superintendent; 38; exempt; permanency. "Pharmacist," 21 Welch Road, Southsea.

QUALIFIED desires Managership, view to succession; Midlands or watering place preferred; discharged soldier; capable, tall, abstainer; excellent references. Address 132/29, Office of this Paper.

QUALIFIED, elderly, large all-round experience, including Dental, desires easy post; disengaged; London. Apply 132/17, Office of this Paper.

QUALIFIED; 42; good experience; exemption; Midlands preferred. Apply 132/9, Office of this Paper.

QUALIFIED Chemist desires position as Manager, Assistant, or Dispenser, or would take charge for another being called up; over military age; London or country near; good-class business. "B. O. E.," c/o Daniel, 10 Old Dover Road, Blackheath, S.E. 3.

RELIEF; qualified; two or three days weekly. Pharmacist, 9 Claverton Street, S.W.

UNQUALIFIED; Photography; abstainer; tall; age 37; three years' West-End; unfit Army; permanency. "Radix" (129/21), Office of this Paper.

WORTHING.—Dispenser, good testimonials from Chemist and Hospital, requires part-time post in Worthing or neighbourhood. Miss Stonnill, Hornsey Villa, Lyndhurst Road, Worthing.

YOUNG lady Dispenser, 18 (energetic, methodical), desires post as Assistant; part-time, Shop or Doctor, in Bradford, Yorks. Apply 129/3, Office of this Paper.

YOUNG lady, age 21, desires post (indoors) to Doctor or Chemist, to learn Dispensing; wishes to pass Hall examination; willing to learn; well educated; could help with bookkeeping; liberty June 9th; provincial or London. Apply 132/13, Office of this Paper.

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DEPARTMENT Manager seeks position in large Chemical Manufacturer's or Merchant's concern; thorough knowledge of Chemical trade; extensive connections; well acquainted with foreign markets; wide experience; sharp buyer and seller; energetic and resourceful in developing business; excellent references. Apply 128/3, Office of this Paper.

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Chemists often take in exchange an old Camera as part payment for a new one, or have same left on their shelves. We buy these on Cash Terms. Try us.

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MAJOR Chemist seeks position as Works Chemist or Works Analyst; good experience with well-known house; London district preferred, but not essential. Apply 129/6, Office of this Paper.

OPEN to represent heavy or fine Chemicals; Wholesale; London terms as arranged. Apply 133/21, Office of this Paper.

PART-TIME employment during war desired by advertiser with large knowledge of Drugs, Toilets, etc.; travelling, office, or manufacturing. Write "Wartime" (133/1), Office of this Paper.

TRAVELLER, with excellent connection among Wholesale and Retail Chemists and Druggists throughout Ireland, is desirous of a change. Apply 126/15, Office of this Paper.

TRAVELLER, exempt, good connection, highest references, desires representation of high-class proprietaries. Address 133/19, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3 Established 1898. Telephone: 81 Leo Green.

Shares for sale (free of commission, subject).—60 Benger's Food Ord., 38s. 6d.; 50 Boots' Pure Drug 7% Preferred, 22s. 6d.; 100 Ilford Ord., 15s. 9d.; 10 Camwal £50 4½% Debts., £33 10s. each; 16 Prefs., 5s. 1½d.; 59 Ord., 6d.; 10 Parke's Drug Prefs., 14s. 9d.; 200 Tower Tea Prefs., 15s.; 250 Ord., 5s.

Wanted (subject).—100 Parke's Drug Ord., 10s. 3d.; Idris "A" Preference and Debentures; 200 Wright Layman Prefs., 19s.; 150 Evans Lescher Prefs., 16s. 1½d.; 100 Southall Brothers & Barclay's Ordinary.

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FLOWERS OF SULPHUR, about 7 cwt., 7 lb., 3s. 6d.; 14 lb., 6s. 6d.; 28 lb., 12s. 6d.; 56 lb., 24s. 6d.; 112 lb., 48s.; carriage paid, passenger. Cunliffe, Southport.

GENUINE Cod-liver Oil (about 10 or 12 barrels); 5 gallon lots, 16s. gallon; 25 gallon barrels, 15s. 6d. gallon; sample free. Morrey, Chemist, Market Drayton.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

SCOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

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COTTON WOOL is CHEAPER

1 lb. Rolls, White, Absorbent, Interleaved.
56 lb. @ 2/2 per lb., 1 cwt. @ 2/1½, 5 cwt. @ 2/1.
Carriage paid, Cash with Order. Wrappers charged
3/6 per cwt., and returnable. Sample for stamp.

J. MILLS, Chemist, Platt Bridge, WIGAN.

THERE IS MONEY

to be made in the Photographic Department of your business, but the Developing, &c., must be WELL and QUICKLY done. We are experts, and return all work promptly. We pay return postage on all orders of 2/- or over. Send for our list and give us a trial.

STEAD & CO., Photographic Experts, Duke St., BRIGHTON.

Developing Printing Enlarging

PRICES FREE. PROMPTNESS.

Wanted—all kinds of Folding Cameras, plate or film. Cash on receipt.

MARTIN, Chemist, SOUTHAMPTON.

FLOWER AND VEGETABLE SEEDS.

BULK OR PACKED.

PENNY PACKETS, per gross, 7s.; 5 gross @ 6s. 9d.; 10 gross @ 6s. 6d.; 25 gross @ 6s. 3d. Net, Carriage Paid. Assorted as desired. List of Varieties on Application.

Special Low Quotations for Bulk.

A. S. PRICE & CO., Ltd., Blackheath, Birmingham

"HOLMIER" SACCHARIN TABLETS. COMPOUND.

We are oversold, and to complete the orders in hand must regretfully decline any new ones

UNTIL WE RENEW OUR PRICE LIST IN THIS SPACE.

We will do our best to quickly clear orders in hand.

MEYER, Manufacturing Chemists, Gravelly Hill, BIRMINGHAM.

SHORT NOTICE of SALE BY AUCTION of a

Collection of Early Dated and Decorated BRONZE MORTARS

the property of a member of the Pharmaceutical Society.

To be sold at 1 o'clock, on FRIDAY, MAY 10, at

Messrs. PUTICK & SIMPSON'S FINE ART SALE ROOMS, 47 Leicester Square, London, W.C.

Lots 1 to 29 in Catalogue.

PRE-WAR PRICES.

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Films developed and printed by experts and promptly returned. Pre-War Prices. Liberal discount. Terms on application. Trial solicited.

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CORKS

Finest quality tapered. Few thousand gross, 1/6 per gross delivered. Large quantities Small Composition Corks, ½" diameter, 4d. per gross. Few

hundred gross 5-oz. Coffee Essence Bottles, 22/- per gross.

Reply Box 071, Samson Clark & Co., Ltd., 58 Great Portland St., W. 1

ALL CHEMISTS SHOULD STOCK

ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 80 Years' Reputation. "ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 1½d. each; Boxes of 13 Packets, 1/6. Wholesale Prices on application. Sample Box 1/6. D. McGLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

HOW TO SAVE MONEY IN SURGICAL DRESSINGS.

Compare these prices before ordering. *WE* can save you about 30%.

WHITE ABSORBENT COTTON WOOL (interleaved)
in 1 lb. rolls, at 2/2 per lb.

WHITE LINT, in 1 lb. rolls, at 3/9 per lb.

BORACIC LINT, in 1 lb. rolls, at 2/8 per lb.

Packed in 1 cwt. Bales. Bales charged extra. 3/6 each.

Also supplied in 28 lb. bales of each at 2/3, 3/10, 2/9 respectively
Carriage paid on 56 lb. Bales 1/6 each. Cheque with Order.

Bales must be paid for, and allowed when returned.

THE PRIMO DRUG CO., 5 Bury New Road, Manchester.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

"C. & D." for seven years to 1916. What offers? H. Munday, Leighton Buzzard.

DRUGS AND CHEMICALS.

WHAT Offers? 9 drams Eucaine Hydrochloride B., Schering. Apply 130/26, Office of this Paper.

3 OZ. Butyl Chloral Hydrate, 10s. per oz. Fitt, Chemist, The Cross, Elland.

WHAT offers? 1 lb. Ol. Lavand. Ang., 10 lb. Ol. Palmæ. Martin, Pharmacist, Redruth.

OFFERS wanted for hundredweight kegs Tartraphol and Soda Bicarb. John Day, Chemist, Dewsbury.

1 LB. Iodoform, powdered; 5 Chocolate H.W. Bottles "Alpha," size 2; 1 x 14 by 8 "The Titan," shop soiled; 1 Chocolate Air Ring, "Goodyear," 10 in.; 2 Alpha White Air Rings, 18 in. Apply 131/33, Office of this Paper.

ASPIRIN Tablets, 13s. 9d. 1,000; Phenacetin, 8 oz., 17s. 6d.; Phenazon, 8 oz., 29s.; Acid Salicylic, 2 lb., 14s.; Sodii Salicyl, 3 lb., 25s.; Potas. Bromid., 2 lb., 22s.; 2 oz. Morph. Hydrochlor. 56s.; Guaiacol Carb., 2 oz., 16s.; Resorcin, 4 oz., 13s. 6d. Post paid. Forryan, 40 Duncan Road, Leicester.

MISCELLANEOUS.

EVERY'S Agate Brain Chemist's Scale; perfect order; £4 10s. 67 Great Titchfield Street, Oxford Street, W.

PILL Rounds for Sale, cheap, Niblett's patent, or would exchange for Pill Coater. "R." c/o 30 St. Peter's Avenue, Cleethorpes.

FOUR tapped Window Standards, 6 ft. by 1 1/2 x 3/4, with bronze brackets; perfect condition. Gamlen, Chemist, West Hartlepool.

TWO 8 gall. pear-shape glass Carboys; one Thermol Bath Cabinet, 70s. list price; Artificial Leg (right) as Maw's fig. G. 38, best make; one packet 6 plates Marion's Record, 12 x 10; half-list prices or offers. Shillecock, Bromley, Kent.

WANTED.

HALF-PLATE Photo Lens. H. Munday, Leighton Buzzard.

SET brass Troy Cup Weights. C. S. Ashton & Co., Brighton.

FRUCT. Carui. Price and quantity to 125/17, Office of this Paper.

CHLORALAMID. State price to Horniblow & Son, Sidbury, Worcester.

UREA.—Wanted, one ton. What offers? Apply 130/33, Office of this Paper.

SLOAN'S Liniment. State size, quantity, price, 129/1, Office of this Paper.

5 to 40 gallons Raw or Boiled Linseed Oil. Watson, Chemist, Cleator Moor.

GUM Senegal or Gum Siftings; one or two cwt. Moorhouse, Chemist, Southport.

ANTI-KAMNIA and Heroin Tablets wanted. Quantity and price to Tims, Chemist, Cobham, Surrey.

GRINDING Mill for sugar; fast and loose pulleys; medium size. Particulars to 131/31, Office of this Paper.

MAG. Carb. Pond., B.P., wanted. State quantity offered and price, W. B. Cartwright, Ltd., Rawdon, near Leeds.

TABLET Machinery, new or second-hand, wanted. Particulars to 61/54, Office of this Paper.

SECOND-HAND Drums required; all sizes from 1- to 180-gallon capacity. State quantities and prices, 110/7, Office of this Paper.

WANTED for cash, Cameras, Plates, Papers, and Photo Sundries. Particulars and lowest price to Wilson's, Photo Chemists, Wigan.

GARDNER'S or similar patent Rapid Sifters and Mixers combined; advertisers require several power Machines up to 10-cwt. size. Box 94, G.P.O., Liverpool.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED, Square or Round Tin Boxes, new or second-hand, for powdered colours; size 1 lb. and upwards; good prices given; cash payment. Williams Bros. & Co., Hounslow.

JOB line Tins wanted, suitable for Boot Polish, etc. We are also buyers of Tin Plates, printed or plain. Also Cartons for same. "Brytenup" Polish Works, Marsh Lane, Preston.

SPECTACLE Lenses, gold-filled Spectacle and Eyeglass Frames in any quantity. Particulars and prices to Bishop & Vincent, 460 Holloway Road, N. 7.

SPECTACLE Lenses, Glazed Spectacles, any kind; Gold-filled Spectacle and Eye-glass Frames, Artificial Eyes and Barometers. State quantity, condition, price, etc., Hebdtch, "Parkholme," Christchurch Road, Doncaster.

£12 each offered for Eureka and £30 for B2 Tablet Machines if in good condition. Please give full particulars to 133/3, Office of this Paper.

WANTED to purchase, a Rotatory sieve Multiple Punch Tablet Machine, new or second-hand. Apply 131/25, Office of this Paper.

THE "Veldt" Laboratory, Louth, England,

are purchasers of surplus Glycerin in large

or small quantities. Offers invited.

COMPLETE Outfit for Limelight for Lantern Projection, Sets Lantern Slides, War, and others. Duthie, Chemist, Inverallocky.

URICOMETER wanted for estimation of Uric Acid as described p. 250, vol. II., Extra Pharmacopœia, current edition. State price of tube to "X. Y. Z." (73/13), Office of this Paper.

HEALTH Saline, Malt Vinegar, Disinfectant Liquids, Powder and Household Scaps, Saccharine in tablet or pulv. form, also Window Display Novelties. Williams, 14 Penn Road, Wolverhampton.

COUNCIL ELECTION.

If you have not already voted, please do so at once, and kindly remember the three Reform Candidates:

(1) Buchanan, Margaret E.

(7) Kirkpatrick, James

(12) Wolff, Hugo

WHO ARE OUT FOR

HIGHER DISPENSING FEES

FACE VALUE, WITH MORE PROFIT

PROGRESSIVE EDUCATION.

The last day for posting is Tuesday, May 14.

**Reminder to
Electors of Council, May 1918.**

**VOTE FOR
Margaret E. Buchanan**

Because she stands for

- (a) The Betterment of Retail Pharmacy.
Shorter hours. Improved remuneration under N.H.I. Face values for Proprietaries. Conservation of Title "Chemist."
- (b) Improved Education, both scientific and technical.
- (c) Help in Reinstatement of Pharmacists at present with the Colours.
- (d) The Women in Pharmacy and their special problems. Also to emphasise their equal responsibilities to assist in the betterment of the craft.

Pharmaceutical Council Election

JAMES KIRKPATRICK

is the Official Candidate of

West Ham, East Ham, and Essex County Associations, and has the support of the majority of the London District Associations (including the Eastern, Northern and South-Western), together with Ealing District and Middlesex County Associations.

He stands for the following:

N.H.I.

Minimum Flat Rate Dispensing Fee of 6d. per Prescription. Abolition of the "One-mile Limit."

Reconstruction—

Federation of Local Associations, and establishment of a Retail Trade Council with Executive Powers.

Title "Chemist."—

Insistence on its retention as the Legal Property of the qualified Chemist and Druggist.

Qualification.—

For all dispensers and persons desiring to carry on the business of a Chemist and Druggist: that of the Pharmaceutical Society.

VOTE FOR

KIRKPATRICK

(Adopted Candidate of London District Associations).

**LEEDS & WEST RIDING
CHEMISTS'
ELECTION COMMITTEE.**

**Pharmaceutical Council Election,
MAY 1918.**

YOUR VOTE & INFLUENCE

are requested on behalf
of the candidature of

**Mr. F. PILKINGTON
SARGEANT,**

who has for the last six years faithfully watched over your interests on the Council, Local Associations' Executive. and the various Committees.

H. GILLEGHAN,
Hon. Sec.

**LONDON COUNTY
PHARMACEUTICAL ASSOCIATION.**

COUNCIL ELECTION, 1918.

VOTE FOR

The Two **BUSINESS** Candidates

KEALL

AND

MELHUISH

WHO STAND FOR A

**CONSTRUCTIVE and
DEFENSIVE POLICY.**

Officially adopted by London County and the Lancashire Federation.

ALCRESTA TABLETS OF IPECAC

LILLY

Uncoated, Disintegrating

Easy to Take

Cause No Nausea



Permit the Oral Administration of Massive Doses of Ipecac

Each tablet contains the alkaloids of ten grains of Ipecac, U. S. P., combined with a form of hydrated aluminum silicate. The tablet disintegrates readily, but the compound passes through the acid juices of the stomach unchanged and liberates the Ipecac alkaloids in the alkaline secretions of the intestines; thus the nausea and vomiting are avoided.

Prescribed by Both Physicians and Dentists

BY PHYSICIANS—In Amebic Dysentery, Amebic Infections of the Tonsils, Typhoid Fever and various Intestinal Disturbances.

BY DENTISTS—In Pyorrhea as an aid to dental instrumentation in which they are as efficient as hypodermatic injections of emetine.

Supplied in Bottles of 40 and 500 Tablets

LILLY'S DENTAL LOTION

An Emetine Prophylactic Mouth Wash, Useful in Pyorrhea; also prescribed in Tonsillitis, Pharyngitis and Stomatitis.

Effective and Pleasant in Flavor—A Steady Repeater

Supplied in 3-oz. and 1-pint Bottles

Order Through Your Wholesaler

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This special label will appear in future on every bulk package of our well-known preparation.

Sample and price on application.



This notice does not apply to the same product packed "Ready for Retail," for which the usual styles of labels are still available.

Specimen labels and cartons free on request.

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ITS UNIQUE REPUTATION.

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